



NUST
SCHOOL OF ELECTRICAL
ENGINEERING & COMPUTER
SCIENCE (SEECs)

NUST SEECs - School of Electrical Engineering & Computer Science

SEECs

GRADUATE BOOKLET

BESE - Bachelor of Software Engineering

CLASS OF
2025

Faculty of
Computing



Contents

01.	NUST SEECS	3
02.	Faculty of Computing.....	4
03.	Message from Head of the Department.....	4
	• Introduction to FOC.....	5
	• FOC Faculty.....	7
04.	Bachelor of Science in Computer Science.....	9
	• BESE Overview.....	9
	• BSCS Course Outline	10
	• BSCS Student Resume.....	12

NUST - SEECS

School of Electrical Engineering and Computer Science (SEECS) symbolizes a paradigm shift in the culture of higher education in Pakistan. It stands tall as an institute with a progressive vision and dynamic focus on the key imperatives of sound engineering education marked by quality of instruction and research on its newly built campus in the idyllic setting of federal metropolis.

Today it is one of the enviable seats of higher engineering education in Pakistan with an ambition to have a prestigious global stature of its own. It already enjoys international recognition as a centre of excellence. The school is fully committed to the promotion of IT and engineering education, marked by creativity, innovation and life-long learning.



Faculty of Computing

Message from Associate Dean

Prof. Dr Rafia Mumtaz

Dear Students of the Graduating Batches of Computer Science and Software Engineering,

As you stand at the threshold of completing your undergraduate journey, I want to take a moment to recognize the dedication, resilience, and growth that have brought you to this point. This phase, filled with anticipation, reflection, and excitement, marks the beginning of a new chapter, and it is truly a moment to be proud of.

Over the past few years, you've navigated through complex codes, late-night deadlines, collaborative projects, and unexpected challenges, emerging each time with greater strength and deeper insight. You've not only gained technical knowledge but also learned to think critically, solve real-world problems, and adapt in an ever-evolving digital landscape.

You are entering a world that urgently needs ethical technologists, innovative thinkers, and compassionate leaders. Whether you choose to dive into industry, pursue research, or carve out your path, I have no doubt that you will make a meaningful impact.

We look forward to celebrating your graduation soon and watching you thrive as proud ambassadors of NUST.

May you continue to lead with integrity, dream boldly, and never stop learning.

Faculty of Computing

Faculty of computing at SEecs carries out research and education in the areas of computer science and software engineering. The department offers highly acclaimed Bachelors and Masters Programs whose alumni have outstanding success rate in industry and academia. Almost all of our students are either employed in lucrative positions in industry, or studying in high quality universities around the world. The department also offers PhD programs in Information Security, Information Technology and Computer Science to fulfill the requirement of qualified researchers and academics in universities and research centers in Pakistan.

Academics

The department strives to provide world-class education to its students, by emphasizing conceptual learning, critical thinking and creative-solving in all of its courses. Most technical courses have hands-on lab components to encourage the practice of "learning by doing". Our curriculum is based on the HEC-approved Curriculum and also follows the recommendations of ACM and IEEE. We encourage faculty members to include in their courses projects and assignments that can spur creativity and innovation among our students. In this way, we provide our students the skills and abilities needed to achieve excellence in their career, academics pursuits, and life in general.

Faculty

The department is proud to have at its service a core of highly qualified faculty members, most of whom hold PhDs in their respective fields. The faculty is involved not just in teaching activities, but also spends a large portion of their time doing research at the cutting-edge of computing technology. Most faculty members have publications in reputed international conferences, research journals and books.

Research

Research in the Department spans the entire range of computing. Some of the active research areas in the Department include:

- High-performance Computing
- Multi-agent Systems
- Web Technology
- Internet of things
- Cyber security & Computer Forensics
- Big Data
- Artificial Intelligence & Machine Learning
- Database Systems
- Computer Networking
- Semantic Web and Knowledge Representations
- Tele-medicine and Surgical Robotics
- Medical Imaging

International Collaborations

The Department of Computing enjoys a wide network of collaborations with industry and university partners, both in Pakistan and abroad. Within Pakistan, department works closely with industry to improve its courses in step with industries' requirements, undertake joint research and development projects, set up internship opportunities for students, and arrange workshops and seminars to keep students aware of the latest trends in computing technology. The Department also shares academic collaboration with some of the world's top universities and research centers, including the European organization for Nuclear Research (CERN), California Institute of Technology, Stanford University, TUKL University Germany, University of North Carolina at Charlotte, University of Portsmouth, EPFL Lausanne, Switzerland and Telecom SudParis, France. This enables the department to conduct high-quality collaborative research with some of the top scientists in their respective fields. Many students are also given the chance to visit these research centers and work closely with the top minds in their fields.

Lab Facilities

Research facilities at Department of the following labs:

1. China-Pakistan Intelligent Systems (CPInS)
2. TUKL
3. IOT
4. High Performance Computing (HPC)
5. Machine Vision and Intelligent Systems Lab (MachVIS lab)
6. Knowledge-Based Systems (KBS)
7. KTH
8. Deep Learning Laboratory (DLL)
9. Information Security & Privacy Lab
10. NUST COVENTRY IoT Lab
11. Pak Thai Digital Innovation Lab
12. NUST BEIHANG Research Center: Remote Sensing Lab
13. Walee NUST Center of Excellence for Digital and Social Media Technologies

Teaching Labs also play a vital role in training and development of students. These include:

1. Computing Lab 1 (Shirazi Lab)
2. Computing Lab 2 (Fabi Lab)
3. Computing Lab 3 (Biruni Lab)
4. Computing Lab 4 (Babbage Lab)
5. Computing Lab 5 (Turing Lab)
6. Computing Lab 6 / IBM/CERN Lab
7. Media Lab

Associate Dean Dr. Rafia Mumtaz University of Surrey, UK

Dr Imran Malik PhD - Universität Kaiserslautern	Dr. Muhammad Moazzam Fraz PhD - Kingston University of London, UK
Dr. Fahad Ahmed Satti PhD - Kyung Hee University, Korea	Dr. Seemab Latif PhD - University of Manchester, UK
Dr. Mehdi Hussain PhD - University of Malaya, Malaysia	Mr. Maajid Maqbool MS - University of Windsor, Canada
Dr. Nazia Perwaiz PhD - NUST, Pakistan	Dr. Mehwish Fatima PhD - Heidelberg University, Germany
Dr. Rabia Irfan PhD - NUST, Pakistan	Dr. Mehwish Awan PhD - Sungkyunkwan University, Korea
Dr. Muhammad Zeeshan PhD - NUST, Pakistan	Dr. Muhammad Khuram Shahzad PhD - Sungkyunkwan University, Korea
Dr. Qaiser Riaz PhD - University of Bonn, Germany	Dr. Shah Khalid PhD - Jiangsu University, China
Dr. Shams Qazi PhD - University of Australia, Australia	Dr. Syed Imran Ali PhD - Kyung Hee University, Korea
Dr. Hasan Tahir PhD - University of Essex, UK	Dr. Madiha Khalid PhD - Bahria University, Pakistan
Dr. Sana Qadir PhD - International Islamic University Malaysia	Dr. Arham Muslim PhD - RWTH Aachen, Germany
Mr. Jaudat Mamoon MS - EPFL Lausanne, Switzerland	Dr. Junaid Younus PhD - Technical University of Kaiserslautern, Germany
Dr. Muhammad Sohail Iqbal PhD - University of Paris-Est, France	Dr. Farzana Jabeen PhD - TSINGHUA UNIVERSITY BEIJING, China
Ms. Sara Tariq Sheikh MS - NUST, Pakistan	Dr. Fatima Abdullah PhD - Kyungpook National University, Korea
Dr. Tahira Anwar Lashari PhD - UTHM, Malaysia	Dr. Aimal Tariq Rextin PhD - University of Limerick, Ireland
Ms. Ayesha Kanwal MS - NUST, Pakistan	Dr. Ayesha Maqbool PhD - The University of Sheffield, UK
Dr. Daud Abdullah Asif PhD - Griffith University, Australia	Dr. Faisal Shafait PhD - University of Kaiserslautern, Germany
Dr. Hashir Moheed Kiyani, PhD - University of Manchester, England	Ms. Hirra Anwar MS - NUST, Pakistan
Dr. Ayesha Hakim PhD - Massey University, New Zealand	Dr. Mehvish Rashid PhD - Dublin City University, Ireland
Dr. Rafi Ullah Chamlawi PhD - PIEAS, Pakistan	Ms. Mehwish Kiran MS - SZABIST, Pakistan
Dr. Momina Moetesum PhD - Bahria University, Pakistan	Dr. Muhammad Ashraf PhD - Middle East Technical University, Ankara, Turkey
Dr. Muhammad Bilal Ali PhD - Kyung Hee University, Korea	Ms. Naema Asif MS - Kyung Hee University, Korea
Dr. Sidra Sultana PhD - NUST, Pakistan	Mr. Taufiq-ur-Rehman MS - NUST, Pakistan
Dr. Zuhair Zafar PhD - Technische Universität Kaiserslautern, Germany	

Bachelors of Engineering in Software Engineering (BE SE)

Program Description

Software engineering is the practice of designing and implementing large, reliable, efficient and economical software by applying the principles and practices of engineering. The aim of the Bachelors in software engineering degree is to produce well, rounded, software engineers who can fulfill the demand for software researchers, academic and developers in Pakistan. While the study of software engineering has a lot in common with computer science, software engineers learn much more about creating high-quality software in a systematic, controlled, and efficient manner. Software engineers are trained in all aspects of software life cycle, from specific through analysis and design to testing maintenance and evaluation of the product. Software engineers are concerned with safety and reliability of the product as well as cost and schedule of the development process.

Unique Features

The software engineering program teaches students the application of engineering concepts, techniques, and methods for the design, development, deployment and maintenance of software systems. Our graduates are qualified professionals involved in the technical work of designing, documenting, coding and testing large software products. They are also responsible for tasks such as directing projects, managing teams, and estimating cost resources, assessing business plans, reviewing proposals and suggesting innovations. The program focuses on imparting the knowledge and training, which enables students to harmonize theory with practice, concept with application and problem with solution. It prepares them to apply ably engineering principles, practices and processes to design, develop, deploy and maintain software systems. The program leads to development of students' professional and interpersonal skills.

Important Courses

With software permitting virtually all aspects of our work in our society, a Software Engineering graduate has the option to work in many different sectors such as software industry, telecommunications, finance, healthcare, manufacturing, retailing, security, transport etc. other engineering areas like aeronautical and automotives, building, electrical, etc. also have increasing needs for software engineering. The entertainment industry with video games and movie animation too has a large demand for Software Engineering. In addition, the SE program develops a strong background for pursuing higher education and research. Graduate from our programs are studying and doing research at some of the best universities and institutes around the world including Stanford University (USA), California Institute of Technology (CALTECH-USA), CERN (Geneva), University of North Carolina (UNC-Charlotte-USA), University of Reading (UK), Kyung-Hee University (South Korea), University of South Brittany, (France) and University of West England (UK).

Career Outcomes

Software Engineering, Object Oriented Programming, Data Structures, Digital Logic Design, Data Base Systems, Operating Systems Concepts and Design, Computer Networks, Computer Organization and Assembly Language, Software Construction, Software Design and Architecture, Software Quality Engineering, Software Project Management

BESE-Curriculum				
S. No.	Course Code	Subjects	CHs	Semester
1.	PHY102	Applied Physics	2+1	1st
2.	MATH101	Calculus and Analytical Geometry	3+0	
3.	MATH161	Discrete Mathematics	3+0	
4.	HU100	English	2+0	
5.	CS114	Fundamentals of Programming	2+1	
6.	HU107	Pakistan Studies	2+0	
7.	OHS101	Occupational Health and Safety	1+0	
Total CHs			17	
1.	*CS- 212	Object Oriented Programming (OOP)	3+1	2nd
2.	HU-101	Islamic Studies	2+0	
3.	MATH-121	Linear Algebra and ODEs	3+0	
4.	ME -109	Engineering Drawing	0+2	
5.	HU-109	Communication Skills	2+0	
6.	EE-122	Computer Architecture and Logic Design	3+1	
Total CHs			17	
1	CS-220	Database Systems	3+1	3rd
2	SE-200	Software Engineering	3+0	
3	CS-250	Data Structures & Algorithms	3+1	
4	MATH-361	Probability and Statistics	3+0	
5	EE-353	Computer Networks	3+1	
Total CHs			18	
1.	CS-330	Operating Systems	3+1	4th
2.	CS-251	Design & Analysis of Algorithm	3+0	
3.	MATH-232	Complex Variables and Transform	3+0	
4.	SE-211	Software Design and Architecture	2+1	
5.	MATH-351	Numerical Methods	2+1	
6.		Sociology Elective-I (Professional Ethics/Engg Economics/Professional Practices)	2+0	
Total CHs			18	

1.		Management Science Elective-1 (Engg Management/ Project Management)	3+0	5th
2.		Engineering Elective-I (Web Engg)	3+1	
3.	SE-315	Cloud Computing	2+1	
4.		MDEE-I (Embedded Systems/IOT)	2+1	
5.	HU-212	Technical & Business Writing	2+0	
6.	CS-314	Software Construction	2+1	
Total CHs			18	
1.	SE-352	Formal Methods	3+0	6th
2.	SE-321	Software Quality Engineering	3+0	
3.		Management Science Elective-II (Entrepreneurship)	2+0	
4.		Engineering Elective-II (Distributed Computing/Information Retrieval)	3+x	
5.	SE-430	Software Project Management	3+0	
6.	CS-261	Human Computer Interaction	2+1	
Total CHs			17	
1.	SE-499	Final Year Project - I	0+3	7th
2.		Engineering-Elective III (DIP/Network Security)	3+x	
3.		Engineering-Elective IV (Data Warehousing and Data Mining)	3+1	
4.		Sociology Elective-II (Engg Economics)	2+0	
5.	CS-484	Information Security	3+0	
Total CHs			15	
1.	SE-499	Final Year Project - II	0+3	8th
2.		Engineering Elective-V (AI/Computer Forensics)	3+1	
3.	CSL-401	Community Service	1*	
4.		MDEE-II (Internet of Things)	3+0	
Total CHs			11	
Overall CHs			131	



Muhammad Abdul Rafey Farooqi

Details

Cell: 923033744416
 Email: mfarooqi.bese21seecs@seecs.edu.pk
 Address: NUST
 Islamabad , Pakistan

Technical Skills

Soft Skills

Reference

To be furnished upon request.

Professional Profile

Secure a responsible career opportunity to fully utilize my training and skills, while making a significant contribution to the success of the company.

Education

BE Software Engineering
 School of Electrical Engineering and Computer Science , 3.14

Internship Experience

Sarmaaya Financials (21-Sep-2022 - 01-Dec-2024)

• Built an RAG application to generate insights from quarterly and annual reports of companies listed in the Pakistan Stock Exchange. • Worked on creating visualizations (using Highcharts and D3), making it easier for end users to understand the data, focusing on key insights, and also integrating real-ti

Univeristy of Saskatchewan (MITACS) (04-Jun-2024 - 23-Aug-2024)

• Focused on profiling GitHub developers to streamline issue assignments. • Analyzed developer contributions and explored their activity on GitHub, Gerrit, Stack Overflow, and Twitter. • Orchestrated data pipelines using Airflow for batch processing and data cleaning. • Analyzed collected data for differe

Projects



Waleed Ahmed



Muhammad Talha Habib

Details Cell: 923346129409 Email: wahmed.bese21seecs@seecs.edu.pk Address: House# 578-C, Street# 2 Shadab colony Multan , Pakistan	Professional Profile Passionate about developing scalable AI and software solutions , I leverage <i>machine learning, computer vision</i> , and robust <i>engineering practices</i> to drive innovation and deliver impactful, real-world applications .
Technical Skills <ul style="list-style-type: none">Devops and cloud computingComputer visionHtml cssTensorflow, keras, pytorchPython, c++, java, javascriptOpen cvMachine learning	Education BE Software Engineering School of Electrical Engineering and Computer Science , 3.29 Matric / O levels , (2019) Intermediate / A levels , (2021)
Soft Skills <ul style="list-style-type: none">Teamwork, flexibilityLeadership and communicationTeam management skillsTechnical documentationTime managementProblem solving and innovation	Internship Experience MITACS Dalhousie University, Nova Scotia, Canada (13-Jun-2024 - 04-Sep-2024) Working on a project to develop methodologies for contactless and non-invasive individual cattle recognition by utilizing machine learning and deep learning. TrulD Technologies (12-Jun-2023 - 11-Aug-2023) Developed a computer vision system using Computer Vision Architecture YOLOv8 for finger detection and pose estimation, improving accuracy through custom dataset annotations and fine-tuning.
Reference To be furnished upon request.	Projects X-AI For Automated EEG Interpretation Working on applying explainable AI techniques to develop a model for automated EEG interpretation, aiming to assist in the diagnosis of neurological disorders with enhanced transparency and human-interpretable reports. Contactless and Non-Invasive Individual Cattle Recognition Developed a deep learning model to recognize individual dairy cows using non-invasive image-based techniques, leveraging machine learning algorithms to analyze cattle body and facial patterns for identification. Landslide Susceptibility and Prediction Developed a machine learning model for predicting landslide susceptibility using geospatial data, environmental factors, and historical landslide records to assess risk and help in disaster management. Finger Detection and Pose Estimation Developed and implemented a robust computer vision project utilizing YOLOv8 for accurate finger detection and pose estimation using personally annotated custom datasets.

Details Cell: 923154241878 Email: talhahabib099@gmail.com Address: NEAR JAMIA QADRIA MAHALA RAHIM ABAD DISTRICT BHAKKAR Bhakkar , Pakistan	Professional Profile Ethical Hacking Penetration Testing Mobile App Developer Flutter Android Generative Ai LLMs RAG Agentic Ai Software Engineering NUST Passionate and detail-oriented software engineer with 2+ years of experience in mobile app development, specializing in Flutter. Seeking to leverage technical skills in cybersecurity and ethical hacking to contribute to innovative security solutions, while continuously enhancing knowledge in emerging technologies like Generative Ai, LLMs, Building RAG application and Agentic Ai.
Technical Skills <ul style="list-style-type: none">Ftk imager and access dataWeb development frameworksAndroidNetwork penetration testingConvolutional neural networksTensorflow, scikit-learnFlutterPenetration testing	Education BE Software Engineering School of Electrical Engineering and Computer Science , 2.53 Matric / O levels , (2019) Intermediate / A levels , (2021) FSC The Smart College. , 99% (2021) Metric The Smart School Bhakkar , 95% (2019) Bachelor of Software Engineering National University of Science and Technology , (2021)
Soft Skills <ul style="list-style-type: none">Communication skillsTeamwork, flexibilityProblem solving skillsMotivational speakingTime managementLeadership qualities	Internship Experience Self Learning (01-Oct-2024 - 03-Mar-2025) Site_Sync (01-Jan-2024 - 01-Jun-2024) Freelance Mobile App Developer (Flutter) (01-Sep-2023 - 01-Jun-2024) Salamly (01-Oct-2023 - 01-Dec-2023) vaasel (01-Aug-2023 - 01-Sep-2023) National Center of Artificial Intelligence(NCAI) Nust (15-Jul-2022 - 09-Sep-2022)
Reference To be furnished upon request.	



Nida Naveed

Details

Cell: 923308736000

Email:

nnaveed.bese21seecs@seecs.edu.pk

Address: HOUSE#30,Askari Colony,
Sialkot Cantt

Sialkot , Pakistan

Technical Skills

- Front end web development
- Proficient in c & c++
- Python, java
- Database (mysql)
- Python

Soft Skills

- Cisco packet tracing, wireshar
- Auto cad civil
- Modelsim
- Self-management skills
- Photography
- Curiosity

Reference

To be furnished upon request.

Professional Profile

I am currently in the fourth semester of my Software Engineering program and want to learn more about my field through internship experiences.

Education

BE Software Engineering

School of Electrical Engineering and Computer Science , 2.81

Matric / O levels

, (2019)

Intermediate / A levels

, (2021)

Internship Experience

Projects

BLOCK IT! (a game developed as semester project in FOP course)

Block it features a fast-paced gameplay, involving user reflexes to quickly reflect the ball back into the box. The game is simplistic, yet is sure to keep you at the edge of your chair! Try keeping it inside for the longest amount of time and impress your friends; show off some reflexes! The game features a

Project of a parking lot made on AnyLogic (Road Traffic library)

In this OOP-based project, we had to deal with challenges like parking lot peak hours, the number of cars parked at once, prioritization systems, ticketing systems, etc.



Muhammad Qasim



Muhammed Salman Ahmed

Details Cell: 923155290169 Email: qmuhammad41@gmail.com Address: House no. 24 , Street 17 , Sector F, DHA-2 Islamabad , Pakistan		Professional Profile I am a highly motivated person trying to seek an opportunity to improve my technical and other skills in order to contribute meaningfully to our society . I have completed small scale app development projects and have some experience in android development , data structures , object oriented programming and database systems.	
Technical Skills <ul style="list-style-type: none">• Python/java/c++/octave• Kotlin• Android developer• Database (mysql)		Education BE Software Engineering School of Electrical Engineering and Computer Science , 3.2 , (2019) , (2021)	
Soft Skills <ul style="list-style-type: none">• Strategic communications• Persuation• Communication skills• Versatility		Internship Experience	
Reference To be furnished upon request.		Projects	

Details Cell: 03351542399 Email: msalmanahmed2003@gmail.com Address: H. NO: CAT-II/20, NEW COLONY Chashma,mianwali , Pakistan		Professional Profile Hardworking, trustworthy and enthusiastic undergraduate student of Bachelors in Software Engineering. I would like to work in collaborative enviornments to use my in energy positively to learn and experience professional life	
Technical Skills <ul style="list-style-type: none">• Digital marketing• Game designing on unity• React• Data analysis• Ms powerbi• Html, css, javascript• Flutter• Unity game development		Education BE Software Engineering School of Electrical Engineering and Computer Science , 2.87 Matric / O levels , (2019) Intermediate / A levels , (2021) Intermediate-Pre Engineering PAEC Model College for Boys , 1076/1100 (2019) Matric Jauher Lyceum High School , 1027/1100 (2017) Bachelors in Software Engineering National University of Science and Technology , 2.87 (2021)	
Soft Skills <ul style="list-style-type: none">• Communication skills• Time management• Teamwork & collaboration		Internship Experience Mindstorm Studios (07-Jun-2024 - 12-Aug-2024) M-Labs Summer fellowship program Two month internship. First month, sessions to learn concepts. Second month development of mobile game. Beyond Solutions (01-Jun-2024 - 31-Aug-2024) Machine Learning Internship which helped to learn some basic concepts	
Reference To be furnished upon request.		Projects Kingdom Defence Mobile Game developed as part of M-labs. The game used slingshot mechanism in which a cannon was used to launch cannon balls at enemies to stop them from reaching the castle VR Gamezone VR game developed in unity The game had 3 different sub-games. Space dodge to move and avoid incoming planets. Climb dodge to avoid falling objects while climbing. Ghost Balloon Attack to kill ghosts coming to attack us. Blinkit Dashboard A project on Power Bi to create a dashboard of a shopping store that give analysis of its sales and companies with respect to profits and customers.	

<div>  </div>		<div>  </div>	
<div> <div> </div> <div> </div> </div>		<div> <div> </div> <div> </div> </div>	
<div> <div> Details Cell: 923105161836 Email: marriamnaeem435@gmail.com Address: House #M-714 Street #34, amarpura Rawalpindi , Pakistan </div> <div> Technical Skills <ul style="list-style-type: none"> Software quality assurance Data analysis Html, css, javascript Mern development Tensorflow, keras, pytorch Firebase, mongodb, sql Python, r, c, c++, java, html Machine learning </div> <div> Soft Skills <ul style="list-style-type: none"> Flexibility and adaptability Technical documentation Detail oriented Quick learner Time management Problem solving and innovation Good listner Teamwork & collaboration </div> <div> Reference To be furnished upon request. </div> </div>	<div> Professional Profile I am a final year Software Engineering student with experience in Machine Learning, Natural Language Processing, and Data Analysis. With practical experience gained through internships and projects, I possess the ability to apply my technical skills effectively in innovative research and development roles. </div>	<div> Details Cell: 923015177988 Email: mtaha.khan2004@gmail.com Address: Street 7A, Sir-Syed Colony Mandian Abbottabad , Pakistan </div>	<div> Professional Profile Final-year Software Engineering student at NUST with expertise in MERN stack full-stack web development and generative AI. Seeking an opportunity to apply my technical skills and innovative mindset to contribute to impactful projects, solve challenging problems, and grow as a professional in cutting-edge technology domains. </div>
	<div> Education BE Software Engineering School of Electrical Engineering and Computer Science , 3.48 Matric / O levels , (2019) Intermediate / A levels , (2021) </div>	<div> Technical Skills <ul style="list-style-type: none"> Data engineering Production planning and control Typescript Gui design on visual studio Web scraping Convolutional neural networks Recurrent neural networks Computer vision </div>	<div> Education BE Software Engineering School of Electrical Engineering and Computer Science , 2.61 Matric / O levels , (2019) Intermediate / A levels , (2021) Matric Abbottabad Public School , 93.5% (2019) Pre-Engineering Abbottabad Public School , 97.45% (2021) Software Engineering SEECS, NUST , (2025) </div>
	<div> Internship Experience Turkish Aerospace Industries, Ankara, Turkey (22-Jul-2024 - 16-Aug-2024) Optical Networks and Technologies (ONT) Lab, SEECS (05-Jun-2023 - 05-Sep-2023) Communication Systems and Networking (CSN) Lab, SEECS (10-Jul-2023 - 18-Aug-2023) Anthropic (01-Jan-2024 - 31-Oct-2024) </div>	<div> Soft Skills <ul style="list-style-type: none"> Quick learner Time management Problem solving and innovation Creativity Teamwork & collaboration Leadership qualities Punctual and responsible </div>	<div> Internship Experience ONT Lab, SEECS (10-Jun-2023 - 08-Sep-2023) Networking and Project Management Walee Lab, SEECS (01-Jul-2024 - 01-Sep-2024) MERN Stack Development </div>
	<div> Projects Clothiq Building an LLM and RAG-based (Retrieval Augmented Generation) based system to simplify online clothing searches with single-query seller recommendations. One-stop shop solution for All traditional E-commerce stores that resolves the time-consuming navigation process. (on-going) Intelligent Resume Screener Developed a Retrieval-Augmented Generation (RAG)-based intelligent system to analyze resumes and job descriptions, enhancing candidate evaluation through semantic matching and context-aware understanding beyond keyword matching. (https://github.com/Marriam-Naeem/Resume-Screening) Multiple Disease Prediction System Developed a disease prediction web app leveraging ML and DL models, achieving 90% accuracy in diagnosing heart attacks, chronic kidney disease, and brain tumors from symptoms and MRI scans. Extended upon findings from a research paper. (https://github.com/Marriam-Naeem/Multiple-Disease-Prediction-System) LIAME Vault Developed a dynamic photo gallery web application using the MERN stack, deployed on Google Cloud Platform with a microservices architecture. Implemented authentication, storage management, and analytics features. (https://github.com/Marriam-Naeem/PhotoGallery) </div>	<div> Reference To be furnished upon request. </div>	<div> Projects BalWijzer (Chatbot for Football Analytics using Deep Learning) Developed an AI-powered chatbot designed to provide football enthusiasts with real-time updates, match schedules, player statistics, and team information. Built using advanced natural language processing (NLP) techniques and generative AI models to offer personalized and interactive responses. Integrated the </div>
<div> Page No. 18 BESE - Graduate Profile Booklet 2025 </div>		<div> Page No. 19 BESE - Graduate Profile Booklet 2025 </div>	



Hussain Mehdi





Raja Muhammad Fawad Khan

Details Cell: 03412030199 Email: hmkazmi14@gmail.com Address: EMPLOYEES COLONY LAYYAH NEAR THANA SADAR Layyah , Pakistan
Technical Skills <ul style="list-style-type: none">• Laravel• Tkinter• Mern stack• Mysql & python programming lan• Flutter apps development• Figma
Soft Skills <ul style="list-style-type: none">• Strategic communications• Self-management skills• Team management• Conflict management• Attention to detail• Effective leadership and manag• Time management• Problem solving and innovation
Reference To be furnished upon request.

Professional Profile Passionate and enthusiastic software engineer looking for a role in software development in Flutter or MERN stack to create beautiful, scalable solution which add value to the society by solving real-life problems.
Education BE Software Engineering School of Electrical Engineering and Computer Science , 2.78 Matric / O levels , (2019) Intermediate / A levels , (2021) Bachelor of Software Engineering SEECs, NUST , 2.78 (2025)
Internship Experience
Projects MockMate - FYP An AI powered mock interview platform, made as final year project (FYP). Utilized Technologies: MERN Stack, Next JS, Tailwind CSS, Fast API

Details Cell: 923228872242 Email: rajafawady@gmail.com Address: WARD NUMBER 3, NEAR GOVT. GIRLS DEGREE COLLEGE,NOOR PEER BASTI Dunyapur , Pakistan
Technical Skills <ul style="list-style-type: none">• Reactjs• Flutter• Mern development• Flutter apps development• Web development
Soft Skills <ul style="list-style-type: none">• Situational awareness• Flexibility and adaptability• Fast improvisation• Quick learner• Project and team management• Problem solving and innovation• Creativity• Teamwork & collaboration
Reference To be furnished upon request.

Professional Profile Passionate and results-driven Web Developer with expertise in Flutter, MERN stack, and Laravel . Proven ability to deliver scalable, high-performance applications. Seeking opportunities to build impactful digital solutions.
Education BE Software Engineering School of Electrical Engineering and Computer Science , 2.46 Matric / O levels , (2019) Intermediate / A levels , (2021) Bachelors of Engineering Software Engineering School of Electrical Engineering and Computer Sciences, NUST , 2.46 (2025)
Internship Experience
Projects

<div></div>		<div><h1>Vishal Sagar</h1></div>		<div></div>	<div><h1>Shaheer Ahmad Iqbal</h1></div>		
<div><h3>Details</h3><p>Cell: 923446490512</p><p>Email: vsagar.bese21seecs@seecs.edu.pk</p><p>Address: Ghazali Hostel NUST</p><p>Islamabad , Pakistan</p></div>		<div><h3>Professional Profile</h3><p>Machine Learning Engineer with experience in Deep Learning, Multimodal AI, Retrieval-Augmented Generation (RAG), and Agentic AI. Skilled in building LLM-powered applications, optimizing AI architectures, developing and deploying AI-driven web applications, and scaling AI models for production. Finalist in the Huawei ICT Global Competition and the Netsol AI Hackathon.</p></div>		<div><h3>Details</h3><p>Cell: 923074638321</p><p>Email: shaheer8431@gmail.com</p><p>Address: MOHALLAH CHAND KHAN, JAMBER KHURD ,TEHSIL DISTPATTOKI, KASUR</p><p>Pattoki , Pakistan</p></div>		<div><h3>Professional Profile</h3><p>Please update objective section.</p></div>	
<div><h3>Technical Skills</h3><ul style="list-style-type: none">• Web scraping• React• Docker kubernetes• Azure cloud platform• Tensorflow, keras, pytorch• C, c++, java and python• Database (mysql)• Machine learning</div>		<div><h3>Education</h3><p>BE Software Engineering School of Electrical Engineering and Computer Science , 2.76 Matric / O levels , (2019) Intermediate / A levels , (2021)</p></div>		<div><h3>Education</h3><p>BE Software Engineering School of Electrical Engineering and Computer Science , 3.03 Matric / O levels , (2019) Intermediate / A levels , (2021) Intermediate in pre-Engineering Punjab Group of Colleges , 1043 (2021) Bachelors in Software Engineering NUST , 3.03 (2025)</p></div>			
<div><h3>Soft Skills</h3></div>		<div><h3>Internship Experience</h3><p>Machine Learning Engineer Ayla AI, Inc. (01-Jun-2024 - 01-Sep-2024) Contributed to system architecture for managing multimodal data and complex interactions. Designed an advanced agent flow and memory system for a self-initiating AI assistant, enabling real-time, context-aware decision-making essential for critical healthcare environments.</p></div>		<div><h3>Internship Experience</h3><p>PaakHealth (15-Sep-2022 - 31-Dec-2022)</p><ul style="list-style-type: none">• Analyzed and refined software requirements for a pharmacy healthcare app, ensuring alignment with functional and non-functional specifications and project constraints.• Developed comprehensive UML designs and SRS documents for the vendor rider, customer, and admin ends, providing clear guidance for d</div>			
<div><h3>Reference</h3><p>To be furnished upon request.</p></div>		<div><p>ML Intern Optical Networks Technologies (ONT Lab) (05-Jun-2023 - 05-Sep-2023)</p><p>Implemented and analyzed Federated Transfer Learning and Knowledge Distillation models for estimation of Quality of Transmission (QoT) of unestablished light paths in optical networks. Achieved 100x reduction in model loss by refining Transfer Learning model architecture.</p></div>		<div><h3>Reference</h3><p>To be furnished upon request.</p></div>			
		<div><h3>Projects</h3><p>Prompt: No-code Website Assistant Builder</p><ul style="list-style-type: none">• Created an intuitive, no-code chatbot customization playground with Next.js, empowering users to visually design and deploy AI website assistants through a simple JavaScript embed snippet.• Skills/Technologies: Next.js, FastAPI, LangChain, OpenAI, Chroma DB, Crawl4AI</div>		<div><h3>Projects</h3><p>Chest X-ray AI Interpretation Tool. Developed an AI-powered tool as my FYP that leverages Deep Learning (DL) and Explainable AI (XAI) to assist young doctors in visually interpreting chest X-rays.</p></div>			
		<div><p>GitChat: Conversational Codebase Assistant</p><ul style="list-style-type: none">• Developed a conversational assistant for Git repositories, enabling intuitive codebase queries.• Developed a hybrid search engine combining keyword and semantic vector search, enhanced by sentence transformers for accurate code and commit analysis.</div>		<div><p>Crop Recommendation System</p><p>Leveraged advanced classification models and LSTM networks to analyze and interpret data, providing farmers with personalized crop recommendations aimed at optimizing yield based on the soil content and historical crop prices in region.</p></div>			
		<div><p>LLM-Powered Text-to-SQL</p><ul style="list-style-type: none">• Fine-tuned large language models (Phi-3.5-mini & Qwen2.5-7B) for Text-to-SQL conversion, enabling natural language database queries, utilizing LoRA for efficient training and reduced resource consumption, including 4-bit quantization.</div>		<div><p>Cloud-based Photo Gallery App with Microservices Architecture</p><p>Developed a multi-tenant photo gallery application using a microservices architecture deployed on Google Cloud Platform. The app utilizes microservices for user management, storage, and monitoring, with cloud-based scalability and automated load testing</p></div>			
				<div><p>Reddit Data Pipeline</p><p>Build a project in which integrated Reddit, Airflow, Celery, Postgres, S3, AWS Glue, Athena, and Redshift to create a seamless ETL process.</p></div>			



Abubakar Javed



Jazib

Details

Cell: 03145005454
Email: ajaved.bese21seecs@seecs.edu.pk
Address: Rahmat Hostel
National university of sciences and technology, sector h12
Islamabad , Pakistan

Technical Skills

- Typescript
- Javascript (es6)
- Mongodb (database)
- Express, nodejs
- Angular js
- Reactjs
- Html, css, ajax, javascript
- Gitflow

Soft Skills

- Improvisation
- Analytical thinking
- Project and team management
- Time management
- Problem solving and innovation
- Strategic communications
- Teamwork & collaboration
- Leadership qualities

Reference

To be furnished upon request.

Professional Profile

Hello !

I am Abubakar Javed, a Final year Software Engineering student with experience in Full-stack development and AI-driven solutions. I am passionate about building scalable applications, leveraging MERN stack expertise, and optimizing performance in web environments as well. An Innovative and detail-oriented person with hands-on experience on problem-solving, automation, and creating user-centric applications.

Education

BE Software Engineering
School of Electrical Engineering and Computer Science , 3.63
Matric / O levels
, (2019)
Intermediate / A levels
, (2021)

Internship Experience

Tensorark (01-Dec-2024 - 30-May-2025)
GoSaaS Labs (01-Jul-2024 - 30-Aug-2025)
AI-Raheem Technologies (01-Mar-2023 - 30-Sep-2023)
NADRA (01-Jul-2023 - 30-Aug-2023)
HamsanTech (01-Jan-2023 - 15-Feb-2023)
PaakHealth (01-Sep-2022 - 15-Dec-2022)

Projects

GoSaaS Reporting Microservice
GoSaaS has multiple tailored Applications deployed for Companies(clients). Reporting Microservice serves as hub to connect to and get all usage Information of a specific app being used by them.

Photolicious
Photolicious is photogallery based on microservices architecture and was developed using MERN Stack. The web application allows user to store images in the cloud using available storage and bandwidth.

Resume8
Resume8 is a job application platform where user can apply for multiple jobs using tailored resumes and cover letters within one go by one click.

Speech Emotion Recognition
Speech Emotion Recognition is a simple project that takes audio inputs, detects emotions and classifies that audio input into a classes. This system was built using DNN(Deep Neural Network).

Details

Cell: 923163382072
Email: jazibmemon12@gmail.com
Address: C/O ALI MEDICAL
STORE NEAR SHIA IMAM
BARGAH HALANEW, DISTRICT
MATIARI, SINDH.

Hala new , Pakistan

Technical Skills

- Data science
- Flask
- Mongodb (database)
- Express, nodejs
- Front end web development
- Data analysis
- Reactjs
- Tensorflow, scikit-learn

Soft Skills

- Communication skills
- Leadership and communication
- Communication and presentation
- Team management skills
- Effective leadership and manag

Reference

To be furnished upon request.

Professional Profile

I'm a Data Scientist and a Machine Learning Engineer with interests in using data as a oil to do wonders. I love helping businesses drive their growth by incorporating AI/ML in their business cases. I also love extracting insights to help businesses know themselves better through their data so they can strategize their performance statiscially.

Education

BE Software Engineering
School of Electrical Engineering and Computer Science , 3.24
Matric / O levels
, (2019)
Intermediate / A levels
, (2021)
Bachelors of Engineering in Software Engineering
National University of Sciences & Technology (NUST) , 3.24/4 (2025)

Internship Experience

Vaasel (12-Jun-2023 - 12-Sep-2023)
Development Intern • I worked on developing the frontend side of Admin Dashboard for one of their mobile application named ‘Circle’. • I collaborated with the backend team via version control tools like GitHub to integrate frontend to the backend APIs.

Edwiz (01-Oct-2022 - 31-Dec-2022)
Software Engineering Intern • During my third semester, I collaborated with this company and worked on their mobile application. • Provided them with two documentations for their application "SeekO" i.e., Software Requirements Specifications (SRS) Document, and Software Design Specifications (SDS) Documen

Machine Learning Engineer (01-Jan-2023 - 31-Mar-2025)
Freelance • Project 1: Training and evaluating models on Loan Approval Dataset considering their genders, income, employment status and other features. • Project 2: Prediction, Classification, and Clustering on Public Expenses Dataset – Worked on this freelance project to apply supervised and unsupervi

Projects

Final Year Design Project: FinForecastHub (Market Scenario Based Financial Time-Series Forecasting)

Developed an automated tool that can process financial datasets of any size—tiny, small, moderate, or large—and accurately forecast financial performance while automatically catering to the dataset's size and nature. • Used TinyTimeMixer (TTM), a non-transformer-based time series model architecture, which

Credit Worthiness in Microfinance Banks using Explainable AI

Used Explainable AI libraries like SHAP to ensure transparency in ML models for credit worthiness in loans. • Used Synthetic Minority Over Sampling (SMOTE) technique to address data imbalance of (88/12) ratio to (50/50).

Food Calorie Estimation using YOLO and OpenCV

Used food images with coins in horizontal and vertical to predict calorie count present in food. • Used YOLOv8 and OpenCV for object detection, image processing and segmentation, and then image classification, and K-Nearest Neighbor regressor for predicting calories.



Misbah Juwayriyyah

Details

Cell: 923331594381
Email: misbahjaveria32@gmail.com
Address: HOUSE # CB321/2,
STREET 6/3, CHAMANABAD
MISRIALROAD, RAWALPINID
CANTT.

Rawalpindi , Pakistan

Technical Skills

- Convolutional neural networks
- Computer vision
- Specialization in python
- Javascript (es6)
- Html/css 5
- Mern development
- Micro-controllers(pic, arduino)
- Mern stack

Soft Skills

- Database design (sql,mongodb)
- Leadership and communication
- Flexibility and adaptability
- Quick learner

Reference

To be furnished upon request.

Professional Profile

Versatile Software Engineer with expertise in AI-driven development, full-stack web solutions, and research-focused problem-solving. Skilled in building scalable applications using the MERN stack, optimizing deep learning models, and integrating AI to enhance user experiences. Experienced in computer vision, data analytics, and embedded systems, with a strong focus on developing secure and efficient solutions. Passionate about pushing technological boundaries through innovation, research, and impactful engineering.

Education

BE Software Engineering
School of Electrical Engineering and Computer Science , 3.48
Matric / O levels
, (2019)
Intermediate / A levels
, (2021)
FSc. Pre-Engineering
Harvard College of Commerce And Sciences (HCCS), Rawalpindi ,
1089/1100 (2021)
Matriculation
Future Foundation School , 1075/1100 (2019)
Bachelors of Engineering in Software Engineering
NUST , 3.48 (2021)

Internship Experience

Habib Bank Limited (HBL) (26-Jun-2024 - 02-Aug-2024)
ONT-Lab NUST (10-Jun-2024 - 30-Aug-2024)
Bytewise Limited (04-Jun-2024 - 30-Mar-2024)
InLights (24-Jul-2023 - 11-Aug-2023)
InLights (12-Jun-2023 - 31-Aug-2023)
embedAIOT (12-Jun-2023 - 26-Aug-2023)

Projects

FedFusion: Secure Collaboration using Enhanced Federated Learning

This project helps developers collaboratively train their models by exchanging weights and hyperparameters over a secure network, while ensuring that the data remains where it originates. The platform creates a secure federated learning environment that detects and isolates threats, thereby protecting b

AI-chatbot Website

Developed an AI chatbot using the OpenAI API, delivering accurate, real-time responses with advanced natural language processing. It integrated seamlessly across platforms, providing personalized interactions while ensuring data privacy.

SafeSteps

Developed a pedestrian detection system using computer vision to recognize people and crosswalks, effectively controlling traffic light signals. The system enhanced traffic flow and safety by dynamically adjusting signals based on real-time pedestrian detection.

AQI monitoring system

The IoT Air Quality Monitoring System represents a robust integration of modern IoT technology and environmental monitoring tools, designed to tackle the increasing concern of air pollution. With real-time capabilities, the system aims to empower users with actionable insights into air quality in their surrou



Attiya Waqar

Details

Cell: 923436545454

Email:

awaqar.bese21seecs@seecs.edu.pk

Address: Street#58, I-8/2

Islamabad , Pakistan

Technical Skills

- Data science
- Photoshop cc
- Data analysis
- Html, css, javascript
- Databases
- Prototyping
- Proficient in python, c & c++
- Python, c++, java, javascript

Soft Skills

- Team workshop
- Strong work ethics
- Communication skills
- Self-management skills
- Leadership and communication
- Communication and presentation
- Communication oral/written
- C programming, content writing

Reference

Name: Salim mazrui

Company: Zain omantel international

Phone:

Email:

salim.mazrui@zainomantel.com

Professional Profile

Aspiring software engineer seeking oppurtunities to apply and learn analytical, programming, and design skills required in a high-level professional environment. Eager to expand my learning and contribute to innovative projects.

Education

BE Software Engineering

School of Electrical Engineering and Computer Science , 2.86

Matric / O levels

, (2019)

Intermediate / A levels

, (2021)

FSc

Bahria College Islamabad , 95.6% (2021)

Internship Experience

Mercurial Minds (01-Apr-2021 - 01-Jun-2021)

• Conducted comprehensive testing of new functionalities for web and mobile applications in their Uber project. • Analyzed and verified data to ensure accuracy and reliability. • Collaborated with the development team to identify and resolve software issues.

National Engineering and Scientific Commission, Pakistan (01-Jul-2024 - 01-Sep-2024)

• Developed a license plate reader model using video feeds to detect and extract vehicles and license plates. • Created a dataset through a pipeline that involved custom OCR and manual annotation of license plates. • Trained a YOLO model on the annotated dataset to improve license plate recognition accuracy

Zain Omantel International (01-Jul-2024 - 07-Mar-2025)

• Worked with their app development tool in making changes to their company website • Worked with their Business Analytics team to analyze data and generate reports • Worked in introducing Robotic Process Automation into their workflows

Projects

License Plate Reader


Designed a software pipeline that took in video feeds from traffic cameras and read the license plates of all vehicles on the road in the feed. The pipeline will be deployed in traffic cameras for real time license plate reading and detection. The project covered aspects of Machine Learning Model Training in

Conversational AI with LangChain

I developed a small project using LangChain to build a conversational AI that efficiently interacts with users and retrieves relevant information. By integrating natural language processing and knowledge retrieval, I created a system that can answer queries, provide recommendations, and simulate human-like co



Oil and Gas Database

Designed and normalized a database from raw, real-world data for the oil and gas industry. We also ensured data integrity and efficiency in data retrieval processes.

<div><div></div><div><h1>Mariyam Abid Cheema</h1></div></div>			
<div><div>Details</div><div>Cell: 923051911045</div><div>Email: mariyamabidchm@gmail.com</div><div>Address: HOUSE NO. 388, ASKARI 2, GUJRANWALA CANTONMENT.</div><div>Gujranwala , Pakistan</div></div>	<div><div>Professional Profile</div><div>Software Engineer with experience in Python development and data analytics. Skilled in designing scalable applications, automating workflows, and analyzing large datasets. Proficient in Python, SQL, Django, Pandas, and data visualization tools. Passionate about building efficient data pipelines and creating actionable insights to drive business decisions.</div></div>		
	<div><div>Education</div><div><div>BE Software Engineering</div><div>School of Electrical Engineering and Computer Science , 2.87</div><div>Matric / O levels</div><div>, (2019)</div><div>Intermediate / A levels</div><div>, (2021)</div><div>Software Engineering</div><div>NUST , 2.87 (2025)</div></div></div>		
	<div><div>Technical Skills</div><div><ul style="list-style-type: none">Data engineeringBlackbox/whitebox testingBig data analyticsPython/java/c++/octaveSoftware quality assuranceData scienceData analysisMs powerbi</div></div>		
	<div><div>Soft Skills</div><div><ul style="list-style-type: none">Post gisDatabase design (sql,mongodb)FilmoraCodingGui(tkinter)Communication skillsSoftware debuggingTeamwork, flexibility</div></div>		
<div><div>Reference</div><div>To be furnished upon request.</div></div>		<div><div>Projects</div><div><div>Railway Management System</div><div>Developed a Railway Management System using Python, implementing core programming concepts such as file handling, functions, and data structures. The system allowed users to book tickets, check train schedules, and manage reservations efficiently. Focused on writing clean and modular code to improve maintaina</div></div><div><div>Grocery Management System</div><div>Designed and developed a Grocery Management System in Java, applying Object-Oriented Programming (OOP) principles such as encapsulation, inheritance, and polymorphism. The system facilitated inventory tracking, billing, and customer management. Used Java Swing for the GUI and JDBC for database integration.</div></div><div><div>Software Testing for Grocery Management System</div><div>Conducted functional, unit, and system testing for the Grocery Management System, ensuring software reliability and performance. Created test cases for validation, boundary testing, and error handling. Utilized JUnit for automated testing and performed manual testing to identify and resolve defects, enhancing</div></div><div><div>Facial Recognition-Based Attendance System (Python – Machine Learning)</div><div>Built a Facial Recognition Attendance System using Python and OpenCV for real-time facial detection and recognition. Integrated machine learning models to improve accuracy and automate attendance tracking. Implemented SQLite for data storage and Flask for a lightweight web interface.</div></div></div>	

Page No. 30 | BESE - Graduate Profile Booklet 2025

Page No. 31 | BESE - Graduate Profile Booklet 2025

<div></div>		<div></div>	
<div>Jamal Ahmad Khan</div>		<div>Muhammad Yameen</div>	
<div><div>Details</div><div>Cell: 923065653946</div><div>Email: jamalcare24@gmail.com</div><div>Address: H#149, ST#4, SECTOR F, SHAHMANSOOR TOWN</div><div>Swabi , Pakistan</div></div>	<div><div>Professional Profile</div><div>Dedicated Software Engineer student with a strong foundation knowledge. Proficient in various programming languages and frameworks, I excel at problem-solving and collaborating with teams to deliver high-quality software solutions. I have a keen interest in the Machine Learning and Deep Learning field, and I am passionate about learning new technologies to contribute effectively to innovative projects.</div></div>	<div><div>Details</div><div>Cell: 923103563314</div><div>Email: yameenmuhammad960@gmail.com</div><div>Address: VILLAGE PIYARO MIRANI TALUKA KAMBER</div><div>Kamber , Pakistan</div></div>	<div><div>Professional Profile</div><div>Passionate and detail-oriented Full Stack Developer with expertise in the MERN stack and Next.js, seeking to leverage my skills in web development, API integration, and scalable software solutions. Dedicated to building innovative, user-friendly applications while continuously learning and adapting to new technologies. Looking for opportunities to contribute to impactful projects and grow as a software engineer.</div></div>
<div><div>Technical Skills</div><div><ul style="list-style-type: none">Computer visionData scienceWeb scrapingPython, javaDatabase (mysql)Machine learningC++</div></div>	<div><div>Education</div><div><div>BE Software Engineering</div><div>School of Electrical Engineering and Computer Science , 3.0</div><div>Matric / O levels</div><div>, (2019)</div><div>Intermediate / A levels</div><div>, (2021)</div><div>BE Software Engineering</div><div>National University of Sciences and Technology (NUST) , 3.0/4.0 (2025)</div><div>F.Sc (Pre-Engineering)</div><div>Islamia College , 972/1100 (2021)</div><div>Matric (Science)</div><div>Fauji Foundation Model School , 1022/1100 (2019)</div></div></div>	<div><div>Technical Skills</div><div><ul style="list-style-type: none">Devops and cloud computingWeb development frameworksTypescriptJavascript (es6)Express, nodejsDockerReactjsMongodb</div></div>	<div><div>Education</div><div><div>BE Software Engineering</div><div>School of Electrical Engineering and Computer Science , 2.65</div><div>Matric / O levels</div><div>, (2018)</div><div>Intermediate / A levels</div><div>, (2020)</div></div></div>
<div><div>Soft Skills</div><div><ul style="list-style-type: none">Communication skillsSelf-management skillsTeamwork, flexibilityConflict managementCommunication and presentationGroup workTyping (70wpm)Managing</div></div>	<div><div>Internship Experience</div><div><div>Machine Learning Intern @ 99 Technologies, Pvt, Ltd. (01-Jul-2024 - 30-Aug-2024)</div><div>(1). Implemented models: Regressions, Classification, and Clustering. (2). Explored key concepts of Machine Learning: Bias and Variance, Performance metrics and Loss functions, Regularization, Forward and Backpropagation, and Hyperparameter Tuning. (3). Developed, trained and optimized models using Deep Lea</div></div></div>	<div><div>Soft Skills</div><div><ul style="list-style-type: none">Communication skillsTeam managementProblem solving skillsTime managementCreativity</div></div>	<div><div>Internship Experience</div><div><div>Full Stack Developer RapidStart Pty Ltd (12-Aug-2024 - 09-Mar-2025)</div><div>At RapidStart Pty Ltd, I am developing a social media integration SDK that connects with platforms like Facebook, Instagram, LinkedIn, Reddit, Telegram, and X (Twitter). My role involves building scalable solutions for posting, data retrieval, and user interaction management. I work with FastAPI and RESTful A</div><div>Full Stack Developer Radwi (01-Aug-2023 - 31-Oct-2023)</div><div>At Radwi, I developed a portfolio and e-commerce website with smooth frontend-backend integration. I focused on creating a user-friendly interface, optimizing performance, and implementing features like product listings and checkout. My work ensured a seamless experience with a responsive and modern design.</div><div>Front-End Developer Sparkleo Technology (01-Jun-2023 - 31-Aug-2023)</div><div>At Sparkleo, I converted Figma designs into a responsive Next.js website, ensuring smooth user experience and modern UI. I focused on performance optimization, interactive design, and real-world implementation of front-end concepts, gaining hands-on experience in transforming creative ideas into functional we</div></div></div>
<div><div>Reference</div><div>Name: Muhammad daud abdullah asif</div><div>Company: Nust-seecs</div><div>Phone: 0519085000</div><div>Email: daud.abdullah@seecs.edu.pk</div></div>		<div><div>Reference</div><div>To be furnished upon request.</div></div>	<div><div>Projects</div><div><div>Fashion Corner (E-Commerce Platform)</div><div>Developed a complete e-commerce platform for fashion products, featuring product browsing, purchasing, and order management. Built an intuitive admin dashboard for handling listings, user data, and orders. Integrated MongoDB for scalable data management and Cloudinary for optimized image handling.</div><div>NUSTrive (E-Learning Platform)</div><div>Created an e-learning platform to help students prepare for the NUST entry test, offering courses and mock exams. Developed a responsive and user-friendly interface using Next.js, Tailwind CSS, and Redux. Provided resources for multiple disciplines to enhance students' preparation.</div><div>Jotion (Notion Clone)</div><div>Built a Notion-inspired collaborative platform with real-time document editing, infinite nested documents, and a collapsible sidebar. Included features like dark/light mode, secure file handling, and public note-sharing. Developed using Next.js, Convex, and MongoDB for seamless performance and data management</div></div></div>



Minahil Shakoor



Abdul Momin

Details Cell: 03321655556 Email: minahilshakoor8@gmail.com Address: HOUSE NO.94,W BLOCK,SCHEME 3,FARID TOWN,SAHIWAL Sahiwal , Pakistan		Professional Profile Please update objective section.	
Technical Skills <ul style="list-style-type: none">• Ftk imager and access data• Blackbox/whitebox testing• Devops and cloud computing• Web development frameworks• Operating systems• Android• Ios• Python/java/c++/octave		Education BE Software Engineering School of Electrical Engineering and Computer Science , 3.26 Matric / O levels , (2019) Intermediate / A levels , (2021)	
Soft Skills <ul style="list-style-type: none">• Team management• Conflict management• Communication and presentation• Multi tasking• Group work• Communication oral/written• Competitiveness• Communication skill		Internship Experience Takhleeq (11-Mar-2023 - 11-Aug-2023) During my UI/UX design internship at Takhleeq, I worked on designing user-friendly app and website interfaces. My tasks included creating wireframes, designing interactive prototypes, and improving user flows to enhance the overall experience. I collaborated with the team to gather feedback and refine designs	
Reference To be furnished upon request.		Projects Murabbi AI web deisgn I worked on designing wireframes for Murabbi, an educational platform that focuses on enhancing learning experiences. My role involved creating structured layouts, improving user navigation, and ensuring a smooth user experience. This project helped me apply my UI/UX skills to real-world educational technolog TruID web design I created wireframes for TruID AI, ensuring a seamless and user-friendly interface for its platform. My responsibilities included structuring layouts, optimizing user flows, and enhancing the overall design experience. This project allowed me to work on an AI-based platform, refining my skills in designing in	
Details Cell: 923241568562 Email: amomin.bese21seecs@seecs.edu.pk Address: Faisalabad , Pakistan		Professional Profile Empower organizations with effective solutions through a strong foundation in Artificial Intelligence (AI), particularly machine learning and low-level development. Seeking a challenging role that leverages my technical skills (Python, C++, Java) and fosters a collaborative environment where I can contribute to the Open Source community.	
Technical Skills <ul style="list-style-type: none">• Tensorflow• C, c++, java and python• Database (mysql)		Education BE Software Engineering School of Electrical Engineering and Computer Science , 3.28 , (2019) , (2021) Bachelor of Software Engineering NUST School of Electrical Engineering and Computer Science (NUST-SEecs) , (2025)	
Soft Skills		Internship Experience TUKL-NUST R&D Center (01-Jun-2023 - 30-Sep-2023) Studied Adversarial Attacks on CNNs using FGSM Researched about Adversarial Attacks on CNNs using PCA	
Reference To be furnished upon request.		Projects WaterWatcherPro Designed the architecture of IoT based water management system. Lead the web application development team of 3 developers. Programmed ESP32 to authenticate and configure itself with server. Rethinking File Systems Explored Linux File Management System implementation details. Implemented File System, which follows the concept of inode and allows multi-user access through threading. Enterprise Resource Planning App Normalized Database and Designed ERD of an Oil & Gas Company case study. Developed the web app using Django with MySQL.	

<div></div>		<div></div>	
Muhammad Ali		Muhammad Saadan	
<div><div>Details</div><div>Cell: 923110557996</div><div>Email: muhammatali07072002@gmail.com</div><div>Address: HOUSE # 548, LANE #5, PESHAWAR ROAD, RAWALPINDI</div><div>Rawalpindi , Pakistan</div></div>	<div><div>Professional Profile</div><div>I am an Information Security student and enthusiast currently pursuing my Bachelor's degree in Software Engineering. I have a keen interest in Information Security and aim to gain hands-on experience in a multinational organization. My skills encompass various tools and techniques in cybersecurity, and I am eager to apply my theoretical knowledge in practical scenarios.</div></div>	<div><div>Details</div><div>Cell: 923329297757</div><div>Email: msaadan.bese21seecs@seecs.edu.pk</div><div>Address: HOUSE NO 578/C-36, STREET NO 6, ALLAHABAD, 3,WESTRIDGE RAWALPINDI CANTT</div><div>Islamabad , Pakistan</div></div>	<div><div>Professional Profile</div><div>I am a Software Engineer with professional experience spanning both corporate and research domains. My expertise lies in bridging the gap between theoretical advancements and practical applications in AI, Deep Learning, and Federated Learning. With a strong background in research experimentation and implementation, I am passionate about addressing unsolved challenges through innovative ideas and approaches.</div></div>
<div><div>Technical Skills</div><div><ul style="list-style-type: none">Blackbox/whitebox testingPython and bash scriptingNetwork penetration testingMetasploitKali linuxCryptographyInformation security (infosec)Networking tools (wireshark)</div></div>	<div><div>Education</div><div><div><div>BE Software Engineering</div><div>School of Electrical Engineering and Computer Science , 2.45</div></div><div><div>Matric / O levels</div><div>, (2019)</div></div><div><div>Intermediate / A levels</div><div>, (2021)</div></div><div><div>Matriculation</div><div>Hamza Army Public School and College , 96% (2019)</div></div><div><div>Intermediate</div><div>Hamza Army Public School and College , 97% (2021)</div></div></div></div>	<div><div>Technical Skills</div><div><ul style="list-style-type: none">Convolutional neural networksRecurrent neural networksSpecialization in pythonFlaskInformation security (infosec)Network troubleshootingTensorflow, keras, pytorchMachine learning</div></div>	<div><div>Education</div><div><div><div>BE Software Engineering</div><div>School of Electrical Engineering and Computer Science , 3.38</div></div><div><div>Matric / O levels</div><div>, (2019)</div></div><div><div>Intermediate / A levels</div><div>, (2021)</div></div><div><div>Matric (Computer Science Group)</div><div>Army Public School and College Westridge III , 95% (2019)</div></div><div><div>FSC. Pre-Engineering</div><div>Army Public School and College Westridge III , 96% (2021)</div></div><div><div>Bachelors in Software Engineering</div><div>School of Electrical Engineering and Computer Sciences (NUST-SEECs) , 3.32 (2025)</div></div></div></div>
<div><div>Soft Skills</div><div><ul style="list-style-type: none">Managing multiple prioritiesCommunication skillsSelf-management skillsTeam managementLeadership and communicationCommunication and presentationCommunication oral/writtenProgramming in python</div></div>	<div><div>Internship Experience</div><div><div><div>AI Raheem Technologies (24-Jun-2024 - 24-Jul-2024)</div><div>Cybersecurity Penetration Testing Intern 1 month summer internship in web app penetration testing.</div></div><div><div>OffensioX (29-Jul-2024 - 08-Sep-2024)</div><div>Penetration Testing Intern 6 weeks summer internship in penetration testing.</div></div></div></div>	<div><div>Soft Skills</div><div><ul style="list-style-type: none">Conflict managementCommunication and presentationTeam management skillsEffective leadership and managIntuitive problem solvingTime management</div></div>	<div><div>Internship Experience</div><div><div><div>National Database and Registration Authority NADRA (Network Security Intern) (10-Jul-2024 - 20-Aug-2024)</div><div>Analyzed the network security posture on NADRA and presented a Network Access Control based solution. Worked with different network officers to understand the working of organization network communication inside and outside the organization. Gained hands-on deployment experience of Firewalls, IP subnettin</div></div><div><div>Optical Network and Technologies Lab (Deep Learning Intern) (07-Jun-2024 - 05-Sep-2025)</div><div>Analysed and compared more than 8 regression models to select the most appropriate one. Utilized the given dataset to predict the GSNR value minimizing the MSE loss up to 0.01 units. Enhanced the model prediction utilizing transfer, active, and federated learning along with knowledge distillation implement</div></div><div><div>School of Electrical Engineering and Computer Science (Federated Learning Researcher) (09-Sep-2024 - 30-May-2025)</div><div>Addressed privacy concerns in AI by proposing solution for challenges in federated deep learning based on extensive literature review. Constructed an end to end pipeline performing data loading and preprocessing followed by configuration and collaboration setup till model learning visualization and analysis</div></div></div></div>
<div><div>Reference</div><div>To be furnished upon request.</div></div>	<div><div>Projects</div><div><div><div>Freelance Penetration Testing</div><div>Using tool such as BurpSuite, Nmap, Dirb, Nessus, Metasploit, Wireshark, etc</div></div><div><div>Freelance SOC L1</div><div>Log monitoring and reporting using LogRhythm SIEM.</div></div></div></div>	<div><div>Reference</div><div>To be furnished upon request.</div></div>	

Page No. 36 | BESE - Graduate Profile Booklet 2025

Page No. 37 | BESE - Graduate Profile Booklet 2025

Projects

Kidney Tumor Classification | Flask, mlflow, Jupiter Notebook, AWS, Docker, Git Actions

Developed an app for kidney tumor classification from a feature extraction of VGG-16 model data ingestion throughout till deployment using Docker Image on AWS EC2 instance using CI/CD GitHub Actions.

AI Engineer (RAG + LLMs) | Python, HuggingFace, SWE-bench, llamaindex, Qdrant

Developed and integrated a RAG functionality for a private legal company. Utilized llama-index, OpenAI embeddings, Qdrant and Asyncio to fulfill company’s feature requirements. Benchmarked various LLMs against SWE-bench for comparative analysis. Shifted entire pipeline to Qdrant and Python client from

OpenAI Clone | OpenAI Api, Cloudinary, React, MongoDB, Express, Node.js

Developed a chatbot feature using OpenAIApi and the “GPT 3.5 turbo” model. Allowed users to view and delete their previous conversations. Developed an image generation feature using OpenAIApi and the “Dall-e 3” model. Allowed users to share the generated image with the community with respective prompts to

RAG App | Python Flask, langchain, PyPdf, ChromaDB, OllamaServer

Developed an end-to-end locally running RAG-APP that receives PDF documents, converts them into chunks, and then embeddings to store in a vector database. The model returns response based on “llama3” and “gemma2” for comparison.



Shumail Qaiser

Details

Cell: 923224584348
Email: shumail.qaiser2016@gmail.com
Address: 1140 RAVI BLOCK
ALLAMA IQBAL TOWN LAHORE

Lahore , Pakistan

Technical Skills

- Html, css, javascript
- Mern development
- Python, c++, java, javascript
- Python, tensorflow/keras
- C, c++, java and python
- Database (mysql)
- Machine learning

Soft Skills

- Communication and presentation
- Teamwork & collaboration

Reference

To be furnished upon request.

Professional Profile

Passionate Software Engineer specializing in AI-driven solutions, leveraging machine learning, data analysis, and software development to tackle real-world challenges. Skilled in designing intelligent systems that enhance efficiency, decision-making, and user experiences across various domains.

Education

BE Software Engineering
School of Electrical Engineering and Computer Science , 3.27
Matric / O levels
, (2019)
Intermediate / A levels
, (2021)
F.Sc
Government College University (GCU) , 1100 (2021)
Matriculation
The Educators Jinnah Campus , 1063 (2019)
Bachelors in Software Engineering
NUST , 3.27 (2025)

Internship Experience

Redbuffer Ltd. (11-Jul-2024 - 22-Aug-2024)
Applied various web technologies to create applications for the organization assuring convenience for various organization functions.

Bytewise Limited (01-Jun-2024 - 01-Sep-2024)
Developed and fine-tuned deep learning architectures for tasks including image recognition and natural language processing, achieving notable accuracy improvements on benchmark datasets. (Remote Internship)

Optical Networks and Technologies Lab (17-Jun-2024 - 19-Aug-2024)
Understanding of ML applications in networking and working of algorithms using different datasets and various ML techniques.

Projects

Psychiatrists and Patient’s Portal
Designed a web-based platform to facilitate psychiatrists in managing patient courses and self-evaluations using NodeJs with ExpressJs and integrated MongoDB as the primary database.

Reviews Classification using LSTMs and BERT
Fine-tuned BERT for sentiment classification, achieving 92% accuracy on the dataset along with transfer learning to optimize text embeddings for better performance on smaller datasets.

<div><div></div><div><h1>Saleha Ahmed</h1></div></div>	
<div><div>Details</div><div>Cell: 923335027094</div><div>Email: snsasb16@gmail.com</div><div>Address: H# F1/323, Mohallah: Aqabdara Jot Ali, Qila Dedar Singh, Teh & Distt Gujranwala</div><div>Gujranwala , Pakistan</div></div>	<div><div>Professional Profile</div><div>I am a final-year Software Engineering student with expertise in Machine Learning, primarily Reinforcement Learning and Computer Vision. I am seeking opportunities in data analytics, algorithm development, and interdisciplinary research in healthcare and wireless systems.</div><div>GitHub Profile: https://github.com/salehaahmed14</div></div>
<div><div>Technical Skills</div><div><ul style="list-style-type: none">Agile and waterfall methodsPython socket programmingOperating systemsComputer visionData scienceData analysisPower biHtml, css, ajax, javascript</div></div>	<div><div>Education</div><div><div>BE Software Engineering</div><div>School of Electrical Engineering and Computer Science , 3.73</div><div>Matric / O levels</div><div>, (2019)</div><div>Intermediate / A levels</div><div>, (2021)</div><div>Bachelors in Software Engineering</div><div>National University of Sciences and Technology - School of Electrical Engineering and Computer Science , 3.73 (2025)</div><div>Intermediate</div><div>Astron College of Science and Commerce , 1087 (2021)</div><div>Matric</div><div>Siddeeq Public School , 1054 (2019)</div></div></div>
<div><div>Soft Skills</div><div><ul style="list-style-type: none">Reasoning and resilienceCommunication and presentationLogic buildingProblem solving skillsProject and team managementTeamwork & collaboration</div></div>	<div><div>Internship Experience</div><div><div>Information Processing and Transmission Lab (01-Sep-2024 - 24-Jan-2025)</div><div>Optical Networks and Technologies Lab (01-Jun-2023 - 03-Sep-2023)</div><div>Mitacs Globalink Research Internship Program - University of Alberta (17-Jun-2024 - 08-Sep-2024)</div><div>Communication Systems and Networking Lab (01-Jul-2024 - 31-Aug-2024)</div><div>FixFirst - Project Collaboration (05-Dec-2022 - 01-Jun-2023)</div></div></div>
<div><div>Reference</div><div>To be furnished upon request.</div></div>	

<div><div>Projects</div><div><div>Energy Efficient Uplink Communications for Wireless Powered Networks with EH Diversity: A DRL-driven Strategy</div><div>Conference Paper published as a first author at the IEEE International Conference on Communications (ICC) 2025.</div></div><div><div>Autism Quest</div><div>• Developed a laravel-based web application with three main modules: interactive games, community engagement and awareness and resources • Implemented three games using React including bubble pop, solving basic arithmetic equations and matching word to image tasks • Implemented CRUD-operations and middlew</div></div><div><div>AI-based Air Quality Monitoring System</div><div>• Developed an air quality monitoring system using an ESP32 micro-controller and various sensors to transmit data periodically to Azure IoT • Created a PowerBI dashboard and integrated it with Azure using Azure Stream Analytics to visualize the metrics in real-time • Gathered data in Azure Blob Storage ov</div></div><div><div>Cloud-based Photo Gallery Application</div><div>• Developed an end-to-end microservices based application using the MERN stack allowing users to Login/Sign up and perform CRUD operations on images • Added additional checks to ensure adherence to storage and bandwidth limits • Deployed each module as a microservice on Google Cloud Platform and ensured com</div></div></div>
--



Muhammad Ahsan Sajjad



Taimoor Sardar

Details Cell: 923358477227 Email: ahsansajjad57135@gmail.com Address: HOUSE NO. 209 ABU BAKAR BLOCK QARTABA TOWN SARGODHA Sargodha , Pakistan		Professional Profile Final year student of Bachelor of Engineering in Software Engineering at the National University of Sciences and Technology (NUST), Islamabad with current CGPA of 3.3 out of 4.0, looking for a Software Engineering and MERN Stack Web Developer Role.		Details Cell: 923409162351 Email: tsardar.bese21seecs@seecs.edu.pk Address: , Pakistan		Professional Profile Please update objective section.	
Technical Skills <ul style="list-style-type: none">• Python/java/c++/octave• Javascript (es6)• Mern stack• Web development• React / node.js / apis		Education BE Software Engineering School of Electrical Engineering and Computer Science , 3.38 Matric / O levels , (2019) Intermediate / A levels , (2021) Software Engineering National University of Sciences and Technology (NUST) , 3.38 (2021)		Technical Skills <ul style="list-style-type: none">• Operating systems• Front end web development• Python, c++, java, javascript• Database (mysql)• Machine learning		Education BE Software Engineering School of Electrical Engineering and Computer Science , 3.05 Matric / O levels , (2019) Intermediate / A levels , (2021) Software Engineering SEECs , 3.31 (2021) Intermediate Pre Engineering Superior College Sambrial , 1091 (2021)	
Soft Skills <ul style="list-style-type: none">• German language (a1 level)• English speaking and writing		Internship Experience Optical Networks and Technologies Lab, SEECs, NUST (13-Jun-2023 - 13-Sep-2023) Develop an Message Dissemination and Rerouting Algorithm for Emergency Vehicle and Implementation using Digital Twin and AnyLogic RapidStart (15-Aug-2024 - 10-Mar-2025) Integrate Social Media Platform i-e Facebook, Instagram, LinkedIn, Twitter, Reddit, YouTube into FastAPI.		Soft Skills <ul style="list-style-type: none">• Opp and design patterns• C• Spanish• Communication skills• Php• Python• Time management• English speaking and writing		Internship Experience Al-Khidmat Foundation Sialkot (01-Aug-2022 - 01-Sep-2022) TUKL-DLL (12-Jun-2023 - 28-Apr-2024) BlueDiamond.ai (01-Aug-2024 - 01-Sep-2024) Digital Empowerment Pakistan (01-Aug-2024 - 01-Sep-2024) Recapeo, Sialkot (01-Jul-2023 - 31-Jul-2023) National Higher School, Sambrial (01-Sep-2021 - 30-Oct-2021)	
Reference To be furnished upon request.		Projects Mess Management System A Mess Management System, using express and ejs templating engine. It allows the administrator to view the mess records of students, administration of student accounts. Students can make a mess of request and view their details. Installments Management System An Installment Management System deployed using concepts of database using MySQL for database development, and PyQt Designer for frontend. Messaging Platform A messaging platform where people register and can message each other, create groups. Created using MERN stack and Shadcn UI for frontend components.		Reference To be furnished upon request.		Projects Smart Irrigation System An IoT project, aiding in Agriculture where we collect data from sensors like Ph, moisture, Temperature and Rain and predict whether to water the field or not. In doing so automating the whole process ScholarshipHub A web app providing all the necessary details about various scholarship Automatic Speech Recognition Fine Tuned Whisper model on Urdu dataset Traffic Simulator with AnyLogic	



Ahmed Abdullah



Fatima Binte Tanveer

Details Cell: 923060185010 Email: aabdulah.bese21seecs@seecs.edu.pk Address: 60- C MUHAFIZ TOWN SARGODHA Sargodha , Pakistan		Professional Profile Software Engineer specializing in mobile development, web technologies, and AI solutions, focused on performance and scalability. Currently pursuing a Bachelor's in Software Engineering with hands-on experience in innovative projects.	
Technical Skills <ul style="list-style-type: none">• Devops and cloud computing• Laravel• Html, css, javascript• Flutter• Unity game development• Docker kubernetes• Python, java• Firebase, mongodb, sql		Education BE Software Engineering School of Electrical Engineering and Computer Science , 3.04 Matric / O levels , (2019) Intermediate / A levels , (2021)	
Soft Skills <ul style="list-style-type: none">• Strategic communications• Communication and presentation• Team management skills		Internship Experience Evamp And Saanga (Flutter Intern) (01-Jun-2024 - 31-Jul-2024) Engineered 3 cross-platform mobile applications using Flutter, reducing development time by 40% compared to native development. Improved app performance through Flutter DevTools profiling and optimization techniques. Reduced app loading time through efficient state management implementation using Riverpod.	
Reference To be furnished upon request.		Projects Prosthetic AR App Flutter, ARCore, SceneKit Developed an augmented reality application for prosthetic visualization and customization. Integrated real-time 3D model rendering capabilities using SceneKit. Implemented Firebase backend for seamless data synchronization and user data management. High Achiever Gold Medal from Rector NUST (May 2023) for Runner-up position in UAS Challenge Pakistan 2022 Most Promising Achievement Award - Team Flying Possums – Value Proposition Award - Team Flying Possums – Led the GCS and Avionics Team successfully through the competition Traffic Light Detection System Python, YOLOv8, OpenCV, PyTorch, Ultralytics Developed a YOLOv8-based traffic light detection system for Pakistani streets using transfer learning from the COCO dataset. Created a custom dataset with 466 annotated images, expanded to 1200+ through advanced augmentations. Innovated a circular annotation approach for varied orientations, achieving robust Nuvexa Photos MongoDB, React, Node.js, Express Designed and deployed a microservices-based photo management platform on GKE with Docker, Kubernetes, and Cloudinary integration. Built a scalable React frontend with real-time monitoring, load balancing, and robust performance validation using Locust.	
Details Cell: 923213222784 Email: fatimabintetanveer@gmail.com Address: HOUSE-33/32-Y, PEOPLE'S COLONY, GUJRANWALA. Rawalpindi , Pakistan		Professional Profile I'm a passionate software engineering student in my final year, with a strong interest in the fields of Data, Artificial Intelligence, and Machine Learning. I recently completed my Data Engineering Internship at Systems Limited, where I gained hands-on experience in building data pipelines and working with big data technologies. In addition, I'm actively involved in research focusing on Deep Reinforcement Learning (DRL), exploring how advanced AI techniques can solve complex real-world problems. My journey in tech is driven by curiosity and a desire to leverage data and AI to make a meaningful impact.	
Technical Skills <ul style="list-style-type: none">• Data engineering• Apache spark• Data analysis• Power bi• Etl warehouse operations• Azure cloud platform• Tensorflow/pytorch• Database (mysql)		Education BE Software Engineering School of Electrical Engineering and Computer Science , 3.41 Matric / O levels , (2019) Intermediate / A levels , (2021) Software Engineering NUST School of Electrical Engineering and Computer Science (NUST-SEECs) , 3.47 (2021)	
Soft Skills <ul style="list-style-type: none">• Communication & interpersonal• Time management• Problem solving and innovation• Good listner• Teamwork & collaboration• Punctual and responsible		Internship Experience Systems Limited (Data Engineering) (15-Jul-2024 - 15-Sep-2024) worked as a Data Engineering Intern at Systems Limited, where I designed and optimized data pipelines using Azure Data Factory, Azure Databricks, and Azure Synapse Analytics to enhance data processing efficiency. I integrated cloud and on-premise systems with Microsoft Integration Runtime and Azure Synapse A ERP Integration Intern, DHA Karachi (01-Jun-2024 - 01-Jul-2024) <ul style="list-style-type: none">• Acquired practical experience with Odoo, mastering its system architecture and features.• Played a key role in the Hospitality Management System project, focusing on module integration.• Showcased strong problem-solving and technical skills, effectively addressing project challenges.• Worked closely w	
Reference To be furnished upon request.			

Projects

Multi-Agent Deep Reinforcement Learning for Energy Efficient RIS-assisted CoMP-NOMA Networks (Research Project)

Accepted in IEEE ICC 2025 This paper proposes a novel solution for optimizing energy efficiency (EE) and maximizing rates in reconfigurable in- telligent surfaces (RIS)-assisted coordinated multi-point (CoMP) non-orthogonal multiple access (NOMA) networks through a multi-agent deep reinforcement learning

AdventureWorks Sales Analysis | End-to-End Azure Data Pipeline

This project showcases a comprehensive data engineering pipeline built entirely on Azure Cloud, covering the complete data lifecycle from ingestion to reporting. The pipeline starts by establishing a secure connection between an on-premise SQL Server and Azure using Microsoft Integration Runtime, enabling sea

Bing News Data Analytics with Microsoft Fabric

This project showcases a full-scale data engineering pipeline built using Microsoft Fabric to analyze Bing News data. The pipeline covers the complete data lifecycle, including data ingestion, transformation, sentiment analysis, and reporting. The processed data is visualized through interactive Power BI repo

Bing News Data Analytics with Microsoft Fabric

This project showcases a full-scale data engineering pipeline built using Microsoft Fabric to analyze Bing News data. The pipeline covers the complete data lifecycle, including data ingestion, transformation, sentiment analysis, and reporting. The processed data is visualized through interactive Power BI repo



Asad Ur Rehman

Details

Cell: 923117080207
Email: aur63639@gmail.com
Address: P160 A BLOCK
GULSHAN E IQBAL COLONY
FAISALABAD.

Faisalabad , Pakistan

Technical Skills

- Python socket programming
- Devops and cloud computing
- Operating systems
- Typescript
- Software quality assurance
- Web scraping
- Specialization in python
- Javascript (es6)

Soft Skills

- Communication skills
- Leadership and communication
- Attention to detail
- Flexibility and adaptability
- Time management
- Problem solving and innovation
- Teamwork & collaboration

Reference

To be furnished upon request.

Professional Profile

Passionate and detail-oriented Full-Stack Developer with a strong foundation in the **MERN** stack, backend optimization, and scalable web application development. Experienced in building interactive and user-friendly platforms, implementing efficient APIs, and enhancing system performance. Adept at working with modern frontend frameworks, database management, and cloud-based solutions to create seamless user experiences. Committed to writing clean, maintainable code and continuously learning new technologies to stay ahead in the ever-evolving software landscape. Seeking a role where I can contribute my technical expertise, problem-solving skills, and passion for innovation to build high-performance applications and impactful solutions.

Education

BE Software Engineering
School of Electrical Engineering and Computer Science , 2.79
Matric / O levels
, (2019)
Intermediate / A levels
, (2021)
Bachelors of Software Engineering
School of Electrical Engineering and Computer Sciences , 2.8 (2025)

Internship Experience

Eon Intelligence (01-Jul-2024 - 31-Aug-2024)
During my MERN Stack Development Internship at Eon Intelligence (June 2024 - September 2024), I worked on developing and enhancing the Test Scheduling Backend for the Eon Testing Tool and KalorieKompass. My responsibilities included implementing key features, optimizing backend functionality, and improving ov

Projects

TalentScoutc
TalentScout is an AI-powered recruitment platform designed as a Final Year Project to enhance and streamline the hiring process. By integrating artificial intelligence into recruitment, TalentScout automates job application management, resume screening, and candidate assessments, significantly reducing the ti



Muhammad Uzair



Muhammad Bilal

Details

Cell: 923326609658
Email: raouzair890@gmail.com
Address: MUHAMMAD UZAIR,
HOUSE 285/A, STREET 9,
MUHALLAHUSSAIN SHAH,
KAMALIA

Sargodha , Pakistan

Technical Skills

- Nodejs
- React
- Netbeans & eclipse
- Embedded c
- Mongodb (database)
- Express, nodejs
- Keil uvision assembly langua
- Web design and developmnt

Soft Skills

- Communication skills
- Self-management skills
- Teamwork, flexibility
- Team management
- Communication and presentation
- Multi tasking
- Communication oral/written
- Competitiveness

Reference

To be furnished upon request.

Professional Profile

A senior software engineering student with a strong background in research and development, specializing in applying machine learning techniques to fields like wireless networks and IoT. Passionate about contributing to innovative research projects while further deepening my expertise in these areas.

Education

BE Software Engineering

School of Electrical Engineering and Computer Science , 3.6

Matric / O levels

, (2019)

Intermediate / A levels

, (2021)

Bachelor's in Software Engineering

School of Electrical Engineering and Computer Science (SEECS), NUST , 3.58 (2025)

Internship Experience

Teresol Pvt. Ltd, Islamabad (17-Jun-2024 - 25-Aug-2024)

- Developed a CRUD-based web application using Vue.js and Vuex for frontend state management. • Utilized XState for handling complex user login flows through state machines. • Integrated MongoDB with Express.js to build a scalable backend for data management. • Gained experience in full-stack development,

Projects

Information Processing and Transmission (IPT) Lab, Islamabad

- Focused on optimizing wireless networks using Deep Reinforcement Learning (DRL) to address energy constraints and spectrum scarcity in IoT devices. • Developed and evaluated energy-efficient and spectrum-efficient protocols, leveraging diversity combining techniques such as Maximum Ratio Combining (MRC),

FixFirst- A Project by SH Solutions, Islamabad

- Collaborated on the creation of comprehensive Software Requirement Specification (SRS) and Software Design Specification (SDS) documents. • Developed expertise in UML modeling, effectively visualizing and documenting software architecture. • Gained practical experience in Agile methodologies, including S

Details

Cell: 923035382575
Email: mbilal.bese21seecs@seecs.edu.pk
Address: H 545 ST 26 PHASE 3
BAHRIA TOWN

Rawalpindi , Pakistan

Technical Skills

- Data engineering
- Computer vision
- Specialization in python
- Rust programming language
- Proficient in c & c++
- Docker | kubernetes
- Mern stack
- Tableau(data visualization)

Soft Skills

- Strong work ethics
- Leadership and communication

Reference

Name: Julia guieraneau
Company: Ecole de technologie
superiere
Phone:
Email: julia.guerineau@etsmtl.ca

Professional Profile

As a Software Engineering student with a deep passion for Computer Vision, Robotics, and Artificial Intelligence, I bring strong technical expertise, a solid research foundation, and exceptional interpersonal and leadership skills. With experience leading teams and managing projects in both academic and professional settings, I thrive in collaborative and innovative environments, whilst being adept at building and maintaining scalable Web Applications and ML Models.

Education

BE Software Engineering

School of Electrical Engineering and Computer Science , 4.0

, (2018)

, (2020)

Bachelor of Engineering in Software Engineering

National University of Sciences and Technology , 4.0 (2025)

Internship Experience

CodeKids (01-Jul-2024 - 02-Dec-2024)

MITACS Globalink Research Intern, Canada (13-Jun-2024 - 04-Sep-2024)

ML Engineer (01-Sep-2023 - 15-Mar-2024)

Deep Learning Intern TUKL R&D (26-Jun-2023 - 01-Sep-2023)

FREELANCE SOFTWARE DEVELOPER (15-Dec-2022 - 10-May-2023)

SOFTWARE ENGINEERING INTERN PAAKHEALTH (22-Sep-2022 - 27-Dec-2022)

Projects

Computer Vision-based Robotic Arm Control

-> Research upon current advancements in vision-based robotic arm control -> Conducted a literature review of the state-of-the-art methodologies involved. -> Implementation of a Neural Network for application of Inverse Kinematics in the vision-based robotic arm pipeline. -> Comparison of the usage of RGB-

Body Measurements Predictor via CNN

Link: <https://github.com/mbilal234/HumanBodyMeasurementPredictor>

Subterranean Nuclear Signal Detector

Link: <https://github.com/mbilal234/SubterraneanNuclearSignalDetector>

Cloud-based Media Drive

Link: <https://github.com/itsAdee/PhotoGallery>



Emaan Umer



Hira Toheed Butt

<div>Details Cell: 923365222449 Email: emaanumer012@gmail.com Address: HOUSE 170, ST 8, BLOCK A, MEDIA TOWN, BETWEEN PWDAND BAHRIA TOWN Islamabad , Pakistan</div>		<div>Professional Profile Detail-oriented and attentive student seeking to leverage my academic background and problem-solving skills to obtain a research internship to help further my endeavours. Not only do I put in effort that brings out the maximum level of creativity and aesthetic, but I am also adept at conceptualizing solutions that meet objective standards with acceptable level of risk. Committed to holding myself at a level of consistent leadership and communication skills needed to excel in fastpaced working environments.</div>	
<div>Technical Skills<ul style="list-style-type: none">• Web development frameworks• Python and bash scripting• Computer vision• Specialization in python• Jquery, ajax, mysql• React• MongoDB (database)• Express, nodejs</div>		<div>Education BE Software Engineering School of Electrical Engineering and Computer Science , 3.57 , (2019) , (2021) Bachelor of Software Engineering National University of Sciences and Technology (NUST) , 3.57 (2025)</div>	
<div>Soft Skills<ul style="list-style-type: none">• Opp and design patterns• Database design (sql,mongodb)• Communication skills• Group work• Problem solving skills</div>		<div>Internship Experience Prompt Engineer Anthropic (04-Jul-2023 - 01-Jul-2024) Web Development Intern AI Raheem Technologies (06-Jul-2023 - 06-Sep-2023) Research Assistant ROMI Lab, NUST (01-Jul-2024 - 01-Sep-2024) Technical Content Writer ThinkSoft (23-Oct-2023 - 31-Dec-2023)</div>	
<div>Reference To be furnished upon request.</div>		<div>Projects EasyCoach - University Transport Services Created an interactive coaching platform using MERN, facilitating seamless transport services and scheduling sessions of 1500+ students AffectiX - An Emotion Recognition System Developed a convolutional neural network using Keras and OpenCV to detect and classify emotions with 85 percent accuracy. Implemented and tested the model on a 35000+ dataset of images, optimizing it for real-time video input. L’IAME Vault - Photo Gallery Built a scalable photo gallery application using the MERN stack and a microservices architecture for efficient photo management. Subterranean Nuclear Signal Detector Designed a Python-based system to detect and analyze nuclear signals through Fast Fourier Transforms (FFT).</div>	

<div>Details Cell: 03137413327 Email: hbutt.bese21seecs@seecs.edu.pk Address: CITY HOUSING SIALKOT BLOCK B executive HOUSE NO 111 street no 64 Sialkot , Pakistan</div>		<div>Professional Profile Dedicated and hard-working individual who is passionate about acquiring new knowledge and developing new skills. I constantly seek out for opportunities to expand my skill set and challenge myself.</div>	
<div>Technical Skills<ul style="list-style-type: none">• Operating systems• Python/java/c++/octave• Digital marketing• Software quality assurance• Convolutional neural networks• Recurrent neural networks• Computer vision• Data handling</div>		<div>Education BE Software Engineering School of Electrical Engineering and Computer Science , 2.79 Matric / O levels , (2019) Intermediate / A levels , (2021) Matriculation QDPS , 1052 (2019) FSc KIPS college , 1089 (2021) Software Engineering NUST , (2025)</div>	
<div>Soft Skills<ul style="list-style-type: none">• Database design (sql,mongodb)• Statistical data analysis• Analytical thinking• Gui(tkinter)• Communication skills• Self-management skills• Human resource management• Software debugging</div>		<div>Internship Experience digitalise (01-Jul-2024 - 15-Aug-2024) I worked under the guidance of our software development team and contributed to various projects. I contributed to software development by writing clean, efficient code and optimizing applications. I also collaborated with cross-functional teams, assisted in debugging & troubleshooting, and ensured smooth fun</div>	
<div>Reference To be furnished upon request.</div>		<div>Projects SimPark:An Agent-based Vehicle Parking Framework for Smart Cities The research aimed to develop a smart parking system using JAVA and OOP to minimize vehicle roaming, reduce parking search time, and ease traffic congestion. This system would optimize parking management, promoting convenience, sustainability, and eco-friendliness in urban transportation. Publication: Confe</div>	



Abdullah Saeed Ahmad Tahir



Rana Mahad Ahmer

Details Cell: 03200094995 Email: abdullah094995@gmail.com Address: KANGNIWALA, HASHMI COLONY, ST # 1, HOUSE # 3, FORNEAR GOVT PRIMARY SCHOOL BOYS & MASJID REHMATAHL-E-HADEES. Gujranwala , Pakistan	Professional Profile <ul style="list-style-type: none">• Innovate & Build – Develop cutting-edge, AI-driven, and IoT-integrated mobile solutions with a user-centric approach.• Lead & Scale – Drive business growth by combining software engineering expertise with strategic leadership.• Optimize & Evolve – Continuously enhance processes, leveraging emerging technologies to maximize efficiency and impact.
Technical Skills <ul style="list-style-type: none">• Android• Flutter• Flutter apps development• Google firebase platform• Front-end developer	Education BE Software Engineering School of Electrical Engineering and Computer Science , 2.55 Matric / O levels , (2018) Intermediate / A levels , (2020)
Soft Skills <ul style="list-style-type: none">• Team workshop• Leadership and communication• Problem solving skills• Teamwork & collaboration	Internship Experience RADWI - NSTP, Islamabad (01-Nov-2023 - 15-Mar-2024) Mobile App Developer
Reference To be furnished upon request.	Projects LifeLogs – AI-Powered Multimodal Journaling for Daily Reflections AI-powered journaling app: for capturing thoughts in audio, video, and text. Deepgram transcription: converts audio/video into searchable text. Calendar view: for easy navigation of past entries. Multi-view layouts: for an interactive journaling experience. Built with Flutter & Firebase: for seaml Thrive HRMS – Smart HR Management & Employee Tracking App Tech Stack: Flutter (frontend), Laravel (backend) Face Recognition: Real-time attendance tracking using AI-powered facial recognition Attendance Tracking: Clock in/out from anywhere with automated logging Clock In/Out Reminders: Never miss tracking your work hours Leave Management: Apply, track, a HabitPulse – A Habit-Tracking App with Personalized Progress Analytics HabitPulse is a sleek and robust habit-tracking application designed to help users build and maintain positive habits. Tech Stack & Tools: • Flutter • Firebase • Push Notifications via Firebase Cloud Functions and Firebase Messaging for precise scheduling. • Google Cloud Functions • RevenueCat • Goog TicTacLap – An Exercise Tracking App with BLE and RFID TicTacLap is a physical education management system that helps teachers track and visualize student performance in real time. Tech Stack & Tools: • Flutter – Mobile app development • BLE Integration – RFID scanning for attendance and performance tracking • API Integration – Real-time data synchronizatio

Details Cell: 923316625623 Email: ranamahadahmer@outlook.com Address: BACK TO PTCL EXCHANGE, QAZI TOWN, DASKA Islamabad , Pakistan	Professional Profile <p>To leverage my expertise in mobile app development, software engineering, and problem-solving skills to design and implement innovative, user-centric solutions that address real-world challenges. With a strong foundation in Flutter, Kotlin, and backend technologies, I aim to contribute to impactful projects in a collaborative environment, while continuously expanding my technical knowledge and honing my skills in modern frameworks and emerging technologies. My goal is to deliver high-quality, scalable applications that enhance user experiences and drive meaningful outcomes.</p>
Technical Skills <ul style="list-style-type: none">• Android• Typescript• Express, nodejs• Kali linux• Kotlin• Html, css, javascript• Flutter• Aws	Education BE Software Engineering School of Electrical Engineering and Computer Science , 2.81 Matric / O levels , (2019) Intermediate / A levels , (2021)
Soft Skills <ul style="list-style-type: none">• Strategic communications• Team workshop• Conflict management• Attention to detail• Flexibility and adaptability• Time management	Internship Experience Digital Empowerment Network (01-Jun-2024 - 31-Jul-2024) Timechain Labs (01-Jun-2024 - 30-Sep-2024) Apps AiT (01-Aug-2024 - 01-Sep-2024) Devlogix (01-Aug-2024 - 30-Nov-2024)
Reference To be furnished upon request.	Projects RingNet - Real-Time Platform for Emergency Alerts & Updates Developed a real-time emergency alert and update platform for local communities. Implemented a peer-to-peer communication system using WebSockets for instant notifications. Designed a secure authentication system to ensure the reliability of emergency reports. Integrated Firebase for cloud-based storage and r Fotolicious Built a scalable photo gallery web application following a microservices architecture. Developed backend services for image storage, retrieval, and processing. Deployed and managed services using Kubernetes on Google Cloud Platform to ensure high availability. Implemented user authentication and role-based ac Speech Emotion Recognition Built a machine learning model to classify emotions based on speech data. Used Librosa for audio feature extraction and TensorFlow/Keras for model training. Achieved an 87% accuracy in emotion recognition using three datasets. Designed a web-based interface to visualize real-time emotion predictions. Packet Sniffer Designed a real-time network traffic monitoring tool for analyzing TCP, UDP, and ICMP packets. Developed a user-friendly interface to visualize network traffic data. Implemented MySQL integration to store packet data for extended analysis and reporting.



Muhammad Momin Rauf

Details

Cell: 923444050396
Email: mrauf.bese21seecs@seecs.edu.pk
Address: House no 41
D block
Sargodha , Pakistan

Technical Skills

- Web development frameworks
- Convolutional neural networks
- Computer vision
- Javascript (es6)
- JQuery, ajax, mysql
- Nodejs
- React
- GraphQL

Soft Skills

- Filmora
- Analytical thinking
- Fine art
- Communication skills
- Versatility
- Graphics designing
- Group work
- Project and team management

Reference

To be furnished upon request.

Professional Profile

I'm a dedicated and adaptable software engineer with a passion for full-stack web development and a growing focus on artificial intelligence and computer vision. With strong skills in technologies like **Node.js**, **Next.js**, and various **Computer Vision** frameworks, I enjoy building efficient, innovative solutions. I'm comfortable **adapting** to any development environment and thrive in dynamic, fast-paced settings. Whether it's tackling new challenges or learning something new, I bring creativity and technical expertise to every project I work on.

Education

BE Software Engineering
School of Electrical Engineering and Computer Science , 2.76
Matric / O levels
, (2018)
Intermediate / A levels
, (2020)
BE-Software Engineering
School of Electrical Engineering and Computer Sciences , 2.77 (2025)

Internship Experience

Walee (01-Jul-2024 - 01-Jun-2025)
Timechain Labs (01-Jun-2024 - 31-Aug-2024)
ChickTech (01-Sep-2023 - 30-Nov-2023)
Edwiz (01-Oct-2022 - 31-Dec-2022)

Projects

AR FACE STUDIO
AR Face Studio is a project that provides users with a real-time 3D filter experience, complete with customization options. Developed during an internship, the project focused on GANs for age filters and full-stack development using Next.js (App Router) with TypeScript. Built the front end, APIs, and a custom

Chatbot for real time football insights - Final Year Project
Currently developing a Computer Vision-Based Sports Analysis Chatbot that integrates advanced computer vision techniques (object detection, tracking, event detection) with conversational AI. The chatbot dynamically analyzes sports videos in real-time, providing actionable insights on player performance, game

Truecharity
Developed a blockchain-based donation platform to track and facilitate contributions to charities, using Prisma and PostgreSQL for database management. Integrated smart contracts, decentralized storage, and secure authentication with JWT. Built with SvelteKit (backend), Svelte (frontend), and styled with Tail



Wasif Mehmood

Details

Cell: 03183345624
Email: wmehmood.bese21seecs@seecs.edu.pk
Address: H#CB283
Greencity sadaat colony gt road wah
Wah cantt , Pakistan

Technical Skills

- Agile and waterfall methods
- Specialization in python
- Python, keras
- Tensorflow, keras, pytorch

Soft Skills

Reference

To be furnished upon request.

Professional Profile

To leverage my extensive expertise in AI, Large Language Models (LLMs), and Data Science to design and implement innovative solutions through fine-tuning, pretraining, evaluating, benchmarking, inferencing, and merging LLMs. I aim to optimize performance by creating synthetic datasets, integrating diverse data sources, and developing efficient data pipelines. Additionally, I seek to apply my proficiency in Python Flask and 3 years of hands-on experience in Flutter development to deliver high-quality software and mobile applications, tackling complex challenges with precision and innovation.

Education

BE Software Engineering
School of Electrical Engineering and Computer Science , 3.09
Matric / O levels
, (2019)
Intermediate / A levels
, (2021)
Software Engineering
NUST SEECS , 3.15 (2025)

Internship Experience

GoProgs (24-Jan-2024 - 24-Jul-2024)
Android Development

Ready Tensor Inc (11-Nov-2024 - 30-Apr-2025)
AI/ML Engineer

Quant AI (10-Jul-2024 - 03-Sep-2024)
AI/ML Engineer

Projects

FedFusion
FedFusion: Federated Learning Simplified FedFusion is an open-source project designed to simplify the process of implementing and experimenting with Federated Learning (FL) architectures. It provides a flexible framework for researchers and practitioners to explore FL techniques while maintaining scalability




Syeda Aamna Shahid

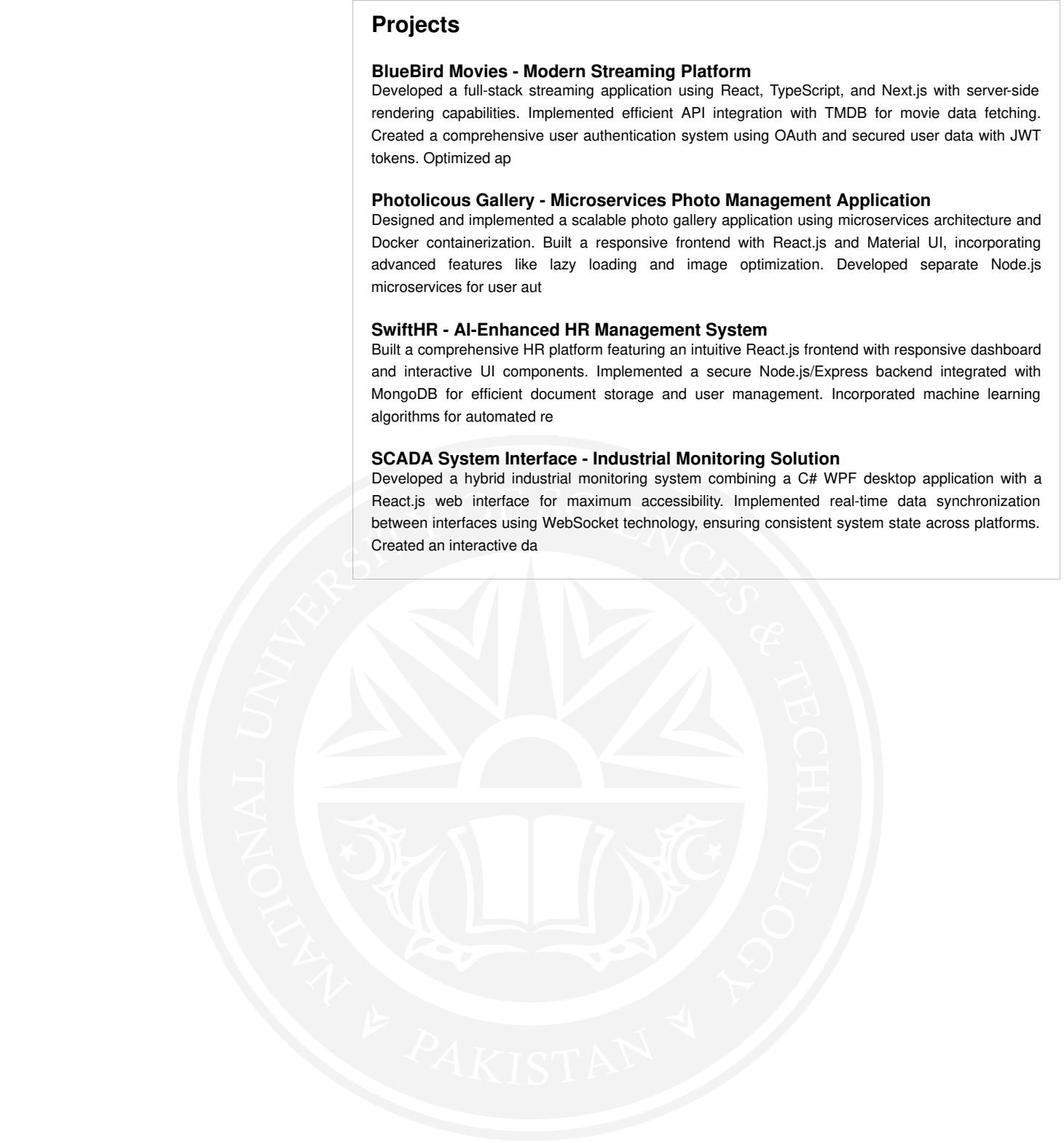


Hamza Ali

Details Cell: 923101007555 Email: amnasyed176@gmail.com Address: HOUSE NO. 199, STREET NO. 06, PHASE- 4, BAHRIA TOWN Islamabad , Pakistan		Professional Profile Motivated and passionate about Deep Learning, Artificial Intelligence, and Natural Language Processing. Enthusiastic about leveraging AI to solve real-world challenges while continuously learning and adapting to advancements in technology.	
Technical Skills <ul style="list-style-type: none">• Web development frameworks• Python/java/c++/octave• Web scraping• Convolutional neural networks• Recurrent neural networks• Mysql & python programming lan• Machine learning		Education BE Software Engineering School of Electrical Engineering and Computer Science , 3.1 Matric / O levels , (2019) Intermediate / A levels , (2021) Bachelors in Software Engineering National University of Science & Technology (NUST) , 3.1 (2021)	
Soft Skills <ul style="list-style-type: none">• Communication skills• Teamwork, flexibility• Flexibility and adaptability• Project and team management		Internship Experience AI Intern Entracloud (01-Jun-2024 - 15-Aug-2024) Contributed to AI model development, training, and deployment in real-world projects. Web Development Intern Interns Pakistan (01-Jun-2023 - 01-Aug-2023) Completed 350+ challenges and 5-6 mini projects. Gained experience in HTML, CSS, JavaScript, PHP, Bootstrap, and WordPress.	
Reference To be furnished upon request.		Projects Final Year Project: RAG-Based Clothing Recommendation Developed a RAG-based search engine leveraging LLMs for clothing recommendations. Deepfake Multimedia Detection Implemented deep learning techniques to detect deepfake multimedia content. Data-Driven Solutions for Transport Emissions Developed ML-based solutions to reduce transport emissions and support sustainability. Concurrent System Model for ATM Machine Created an ATM system model using Uppaal for robust transaction handling.	

Details Cell: 03348726331 Email: hamzaaliz1008@gmail.com Address: House: 656 Street: 75, sector: i-8/3 Islamabad , Pakistan		Professional Profile Data Scientist with a Software Engineering background and foundational experience in using Data Science to drive business impact. Ready to start a full-fledged career in Data Science to expand my expertise and continue applying data science to create business value.	
Technical Skills <ul style="list-style-type: none">• Ann• Python and bash scripting• Convolutional neural networks• Recurrent neural networks• Specialization in python• Data handling and forecasting• Data cleansing and analysis• Data science		Education BE Software Engineering School of Electrical Engineering and Computer Science , 2.84 Matric / O levels , (2019) Intermediate / A levels , (2021) Bachelor of Engineering in Software Engineering National University of Sciences and Technology (NUST) , 2.84 (2021)	
Soft Skills <ul style="list-style-type: none">• Strategic communications• German language (a1 level)• Analytical thinking• Strong work ethics• Communication skills• Self-management skills• Human resource management• Teamwork, flexibility		Internship Experience TravelHouseUK (09-Sep-2024 - 08-Dec-2024) 1. Customer Segmentation using clustering algorithms and targeted marketing strategy. 2. Customer Churn Analysis, Prediction and Retention Strategies. 3. Sales and Business KPIs Dashboard to monitor real-time data 4. ETL Pipeline Automation to reduce data processing time Ezitech Institute (03-Jun-2024 - 08-Aug-2024) 1. Sales Forecasting 2. Cat and Dog Classification 3. Cotton Disease Prediction 4. Brain Tumor Detection	
Reference To be furnished upon request.		Projects	

<div><div></div><div>Muhammad Yasir Ghaffar</div></div>	
<div><div>Details</div><div>Cell: 923150819478</div><div>Email: yasirghaffar.nust@gmail.com</div><div>Address: MANSORABAD FAISALABAD. Street 11 main bazar Faisalabad , Pakistan</div></div>	<div><div>Professional Profile</div><div>Results-driven Full Stack Web Developer with expertise in MERN stack technologies and modern frontend frameworks. Experienced in building responsive web applications, RESTful APIs, and scalable backend services. Seeking an Associate Engineer position where I can leverage my skills in React.js, Node.js, and cloud technologies to create innovative web solutions while continuing to grow as a developer.</div></div>
<div><div>Technical Skills</div><div><ul style="list-style-type: none">Agile and waterfall methodsDevops and cloud computingTypescriptJavascript (es6)NodejsReactMongodb (database)Express, nodejs</div></div>	<div><div>Education</div><div><div><div>BE Software Engineering</div><div>School of Electrical Engineering and Computer Science , 2.53</div><div>Matric / O levels</div><div>, (2018)</div><div>Intermediate / A levels</div><div>, (2020)</div><div>BESE</div><div>SEECs , (2025)</div></div></div></div>
<div><div>Soft Skills</div><div><ul style="list-style-type: none">Problem solving and innovationTeamwork & collaboration</div></div>	<div><div>Internship Experience</div><div><div><div>DevLogix Technology (08-Jul-2024 - 29-Sep-2024)</div><div>Developed full-stack HR platform using MongoDB, Express.js, React.js, and Node.js (MERN stack). Implemented AI-powered resume analysis system for automated candidate screening and processing. Created secure RESTful APIs with JWT authentication and role-based access control mechanisms. Integrated third-party s</div></div><div><div>4Loop Automation (01-Jan-2024 - 01-Jan-2025)</div><div>Refactored legacy SCADA systems, reducing codebase by 40% while maintaining functionality through modern patterns. Implemented optimized database queries and indexing strategies, decreasing system latency by 75%. Built responsive frontend interfaces with React.js and integrated with backend systems using WebS</div></div></div></div>
<div><div>Reference</div><div>To be furnished upon request.</div></div>	



Projects

- BlueBird Movies - Modern Streaming Platform**

Developed a full-stack streaming application using React, TypeScript, and Next.js with server-side rendering capabilities. Implemented efficient API integration with TMDB for movie data fetching. Created a comprehensive user authentication system using OAuth and secured user data with JWT tokens. Optimized ap
- Photolicous Gallery - Microservices Photo Management Application**

Designed and implemented a scalable photo gallery application using microservices architecture and Docker containerization. Built a responsive frontend with React.js and Material UI, incorporating advanced features like lazy loading and image optimization. Developed separate Node.js microservices for user aut
- SwiftHR - AI-Enhanced HR Management System**

Built a comprehensive HR platform featuring an intuitive React.js frontend with responsive dashboard and interactive UI components. Implemented a secure Node.js/Express backend integrated with MongoDB for efficient document storage and user management. Incorporated machine learning algorithms for automated re
- SCADA System Interface - Industrial Monitoring Solution**

Developed a hybrid industrial monitoring system combining a C# WPF desktop application with a React.js web interface for maximum accessibility. Implemented real-time data synchronization between interfaces using WebSocket technology, ensuring consistent system state across platforms. Created an interactive da

<div></div>		<div></div>	
Muhammad Farooq Afzal		Muhammad Abdul Basit	
<div>Details</div> <div>Cell: +923034490239</div> <div>Email: mfa.132002@gmail.com</div> <div>Address: HOUSE #465, STREET 38, I-8/2, ISLAMABAD, PAKISTAN</div> <div>Abu Dhabi , Pakistan</div>	<div>Professional Profile</div> <div>I'm a software engineer interested in the application of data science and analytics techniques to solve business and strategy problems.</div>	<div>Details</div> <div>Cell: 03229289899</div> <div>Email: mbasit.bese21seecs@seecs.edu.pk</div> <div>Address: 416 Raza Block Allama Iqbal Town</div> <div>Lahore , Pakistan</div>	<div>Professional Profile</div> <div>I am a Software Engineering student at the National University of Science and Technology, Islamabad, with a keen passion for App and Web Development.</div>
	<div>Education</div> <div>BE Software Engineering</div> <div>School of Electrical Engineering and Computer Science , 2.51</div> <div>, (2018)</div> <div>, (2021)</div> <div>Bachelors in Software Engineering</div> <div>SEECs, NUST , (2025)</div>		<div>Education</div> <div>BE Software Engineering</div> <div>School of Electrical Engineering and Computer Science , 3.01</div> <div>Matric / O levels</div> <div>, (2019)</div> <div>Intermediate / A levels</div> <div>, (2021)</div>
	<div>Technical Skills</div> <div><div><div>• Python/java/c++/octave</div><div>• Bash scripting</div><div>• Etl</div><div>• Game designing on unity</div><div>• Web scraping</div><div>• Data handling and forecasting</div><div>• Data science</div></div></div>		<div>Technical Skills</div> <div><div><div>• Web scraping</div><div>• Laravel</div><div>• Flutter</div><div>• Html css</div><div>• Programming: java, c/c++, php</div><div>• Mysql & python programming lan</div><div>• Flutter apps development</div><div>• Android developer</div></div></div>
	<div>Soft Skills</div> <div><div><div>• Intuitive problem solving</div><div>• Strategic communications</div></div></div>		<div>Soft Skills</div> <div><div><div>• Word</div><div>• Problem solving skills</div><div>• Motivational speaking</div><div>• Technical documentation</div><div>• Project and team management</div><div>• Time management</div><div>• Problem solving and innovation</div><div>• Creativity</div></div></div>
<div>Reference</div> <div>To be furnished upon request.</div>	<div>Internship Experience</div> <div>XR Hive Lab, SINES, NUST (13-Jan-2025 - 10-Mar-2025)</div> <div><div><div>• Designed and conducted an experiment focused on stress induction and relief methodologies using Virtual Reality and EEG measurements.</div><div>• Restructured C# codebase and updated SDKs for compatibility for a Unity-based VR Trier Social Stress Test (TSST) to ensure conflict-free deployment on the Oculus Quest 2</div></div></div>	<div>Internship Experience</div>	<div>Projects</div> <div>PriceGram - Web Platform for E-commerce Price Comparison</div> <div>Developed a Django-based website that compares electronic products across major Pakistani e-commerce stores. Led web scraping, data filtering, and integrated ML models for search and recommendations. Reached the final and 3rd stage in the FICS competition.</div> <div>safAI: AI-Driven Garbage Detection via Satellite Imagery</div> <div>Developed a deep learning model using the Aerial Waste Dataset. Implemented CNN architectures (ResNet50) and data augmentation.</div> <div>sustainablePAK: Laravel-Based Website for Eco-Friendly Businesses</div> <div>Built a Laravel-based platform for eco-friendly business listings. Integrated role-based access control, search functionality, and responsive UI. Used MySQL for database management and RESTful APIs for client-server communication.</div>
	<div>Projects</div> <div>ScrAlp: A Prompt-Based Web Scraping Application</div> <div><div><div>• Goal: Enable users to get web data without writing code by describing what data they want from a website.</div><div>• Developed a backend pipeline in Python using a fine-tuned Llama 3.1 with RAG to interpret user prompts.</div><div>• Created a React frontend integrated with a FastAPI backend and Pinecone database for retri</div></div></div> <div>GalleryVista</div> <div><div><div>• Goal: Allow users to securely store and access their personal photos from anywhere.</div><div>• Hosted the application on Azure using a microservices architecture with Flask for secure authentication and image management.</div><div>• Packaged individual services in Docker containers to simplify deployment and scalability.</div></div></div> <div>Asymmetric 4DES + HMAC Encryption Protocol</div> <div><div><div>• Goal: Protect sensitive data during communication.</div><div>• Designed a hybrid encryption system combining RSA-based key wrapping and multi-pass DES symmetric encryption.</div><div>• Built a demo app using Flask and Bootstrap to showcase encrypted communication and integrity checks via HMAC (SHA-256).</div></div></div>		<div>Reference</div> <div>To be furnished upon request.</div>

Page No. 60 | BESE - Graduate Profile Booklet 2025

Page No. 61 | BESE - Graduate Profile Booklet 2025



Imaan Ibrar



Muhammad Ashhub Ali

Details

Cell: 923349219948
Email: imaanibrar86@gmail.com
Address: HOUSE # 521 , STREET # 17 , SECTOR 3 , AIRPORT ,EMPLOYESS COOPERATIVE HOUSING SOCIETY (AECHS) , .CHAKLALA RAWALPINDI

Rawalpindi , Pakistan

Technical Skills

- Big data analytics
- Computer vision
- Project planning
- Tensorflow/pytorch
- Python, java
- Front-end developer
- Figma
- Machine learning

Soft Skills

- Project and team management
- Problem solving and innovation
- Creativity
- Teamwork & collaboration

Reference

To be furnished upon request.

Professional Profile

A Software Engineering student with expertise in Machine Learning, NLP, and Product Management. Strong foundation in algorithm development, data analysis, and software engineering, with a focus on solving real-world problems through AI and automation.

Connect on : <https://www.linkedin.com/in/imaan-ibrar-b62231237/>

Education

BE Software Engineering
School of Electrical Engineering and Computer Science , 3.61
Matric / O levels
, (2019)
Intermediate / A levels
, (2021)

Internship Experience

Deep Learning Intern (Radar Research Lab) (01-Jun-2024 - 31-Aug-2024)
- Developed a rail lane detection system using YOLOv5, reducing RailGuard's latency by 26%. - Curated a 3.1k image-pair dataset for railway track detection.

Machine Learning Intern (CSN Lab) (01-Jul-2023 - 31-Aug-2023)
Gained expertise in machine learning by actively participating in algorithm development and implementation for data analysis, prediction, and insights extraction from intricate datasets

Product Manager (Shadiyana) (01-Nov-2024 - 31-Mar-2025)
- Led product strategy to enhance vendor onboarding and user experience. - Conducted A/B testing and data analysis for the 2025 version release of the Shadiyana App. - Collaborated with sales and tech teams to refine platform features and sales

Projects

TALIM - An AI Based Virtual Educational Assistant
A RAG based pipeline for virtual teaching assistant that delivers instructor content and course-related answers and facilitates custom quiz and assignment generation, including versions and assessments aimed to enhance learning and evaluation. Github: <https://github.com/Abdullahtahirrr/TALIM>

Resume Screening Using RAG
Filters out most suitable candidates resume based on a prompt with proper reasoning.

Multi-Disease Prediction System
Developed a system to predict brain tumor, heart disease, and chronic kidney disease, focused on identifying the best-performing classifiers for improved accuracy. Extended upon findings from a reference paper.

Other Projects
<https://github.com/ImaanIbrar>

Details

Cell: 923129291010
Email: 7558@cch.edu.pk
Address: HOUSE NO. 230 - VALLEY VIEW ROAD - RAFI BLOCK - -BAHRIA TOWN PHASE 8 - RAWALPINDI

Rawalpindi , Pakistan

Technical Skills

- Agile and waterfall methods
- Web development frameworks
- Python/java/c++/octave
- Typescript
- Software quality assurance
- Javascript (es6)
- JQuery, ajax, mysql
- Flask

Soft Skills

- Flexibility and adaptability
- Project and team management
- Problem solving and innovation
- Teamwork & collaboration

Reference

To be furnished upon request.

Professional Profile

As a software engineer with a strong foundation in backend development and hands-on experience across diverse projects, I am committed to delivering efficient and scalable solutions. My work in automation, testing, and development has honed my ability to optimize system performance, ensure seamless functionality, and collaborate effectively within Agile environments. I aim to contribute to innovative and impactful projects by leveraging my expertise in designing robust architectures and streamlining backend processes.

Education

BE Software Engineering
School of Electrical Engineering and Computer Science , 3.65
Matric / O levels
, (2019)
Intermediate / A levels
, (2021)
Pre-Engineering (HSSC)
Cadet College Hasanabdal , 1091/1100 (2021)
Matriculate
Cadet College Hasanabdal , 1031/1100 (2019)

Internship Experience

Motive (05-Jun-2024 - 13-Dec-2024)
I developed and executed browser automation scripts using Playwright to validate the performance and functionality of web applications, ensuring a seamless user experience. Additionally, I leveraged RestAssured for data creation and validation, enabling reliable and efficient backend interactions throughout t

PaakHealth (14-Sep-2022 - 30-Dec-2022)

I authored the Software Requirements Specification (SRS) for a Pharmaceutical Supplies Delivery System, clearly defining the project objectives and requirements. Additionally, I created the Software Design Document (SDD), detailing the application's architecture and functionality to ensure a structured and ef

Projects

Photo Gallery Web Application
As part of a team, I contributed to the development of a cloud-based image storage system using the MERN stack, employing a microservices architecture to ensure modularity and efficiency. We implemented an event-driven architecture to enable real-time updates, enhancing system responsiveness. Additionally, I

Fall Detection Web Application
As part of a team, I contributed to the development of a Fall Detection Web App, integrating a Python Flask backend with a React JS frontend for seamless functionality. We trained the YOLOv8n model on the PersonFall and Fall-1 datasets from Roboflow, achieving precise and reliable fall detection. Additionally



Aamina Binte Khurram



Syed Ahsan Ullah Tanweer

Details Cell: 923179790352 Email: akhurram.bese21seecs@seecs.edu.pk Address: , Pakistan		Professional Profile I am interested in contributing to projects with a meaningful societal impact and being a part of an environment where I will need to continue to learn new things.	
Technical Skills <ul style="list-style-type: none">• Blackbox/whitebox testing• Agile and waterfall methods• Python socket programming• Cuda• Devops and cloud computing• Web development frameworks• Atmel studio• Operating systems		Education BE Software Engineering School of Electrical Engineering and Computer Science , 3.86 Matric / O levels , (2019) Intermediate / A levels , (2021) Bachelor of Engineering in Software Engineering School of Electrical Engineering and Computer Science , 3.86/4.00 (2025)	
Soft Skills <ul style="list-style-type: none">• Leadership and communication• Communication and presentation• Team management skills• Group work• Communication oral/written• Attention to detail• Situational awareness• Problem solving skills		Internship Experience Information Processing and Transmission Lab, NUST, Islamabad (31-May-2024 - 07-Mar-2025) Communication Networks Lab, University of Victoria, Victoria, Canada (17-Jun-2024 - 06-Sep-2024) Optical Networks and Technologies Lab, NUST, Islamabad (12-Jun-2023 - 31-Jan-2024) High Performance Computing Lab, NUST, Islamabad (15-Jul-2022 - 09-Sep-2022)	
Reference To be furnished upon request.		Projects Optimal Baseband Unit Placement Developed a heuristic-based approach for optimal baseband unit placement in 5G networks Cloud-Native Image Gallery Web App Created the storage monitoring microservice for a MERN stack image gallery web application Home Intrusion Detection System Developed a dummy intrusion detection system that runs on an ESP32 microcontroller Autism Spectrum Disorder (ASD) Diagnosis from Facial Features Applied various image classification models to the problem of ASD diagnosis, and experimented with performance optimization through multiple techniques Achieved 90% detection accuracy with customized optimization applied on the ResNet50 model	
Details Cell: 923219974500 Email: ahsan.ullah101004@gmail.com Address: Rawalpindi Punjab , Pakistan		Professional Profile Detail-oriented and innovative software engineer with expertise in data engineering, machine learning, and cloud computing . Seeking a Data Engineer role at a data-centric company to apply my technical skills and problem-solving abilities in building scalable, impactful solutions - contributing to the progress of the company.	
Technical Skills <ul style="list-style-type: none">• Data engineering• Devops and cloud computing• Etl• Web scraping• Python, c++, java, javascript• Tensorflow/pytorch• Firebase, mongodb, sql• Machine automation		Education BE Software Engineering School of Electrical Engineering and Computer Science , 3.26 Matric / O levels , (2019) Intermediate / A levels , (2021)	
Soft Skills <ul style="list-style-type: none">• Team management skills• Problem solving skills• Entrepreneurial skills• Team playing• Communication & interpersonal• Quick learner• Teamwork & collaboration		Internship Experience Spectrave (01-Jul-2024 - 01-Sep-2024) AI Engineer (Internship) • Developed AI models for solar predictive maintenance and SCADA systems. • Implemented anomaly detection and digital twin technology. • UAV image annotation and CV model development. • Automated power plant digitalization based on thermal images. Aawaz AI (01-Dec-2022 - 01-Mar-2023) Lead Data Miner (Contract) • Extracted and processed 50,000+ data points for a fintech project. • Achieved 1st place in ADB's Tech4Women Challenge. Finantler (01-Aug-2022 - 01-Oct-2022) Lead Data Engineer (Internship) • For Freelancer Credit-Scoring System at SadaPay, securing 3rd place in NIC Fintech Hackathon 2022. • Built scalable ETL pipeline, web crawlers (10,000+ profiles), and data warehouse. • Investigated alternative credit-scoring methods via industry outreach and psychometrics.	
Reference Name: Muhammad uzair ghous Company: Spectrave Phone: +92 317 1724828 Email: eng.uzairgm@gmail.com		Projects GeMorph GeMorph predicts 3D facial meshes from DNA using AI and genomics for forensics. My Role: • AI Software Engineer (founding team of 3) • Led model development for facial traits • Top 16, Zindagi Prize 2024 • 2nd place, CLC (incubation offers) • Pre-incubated at InnoHub, NUST • Incubated at NICAT PriceGram Pricegram is a price-tracking and recommendation platform helping users find the best deals. My role: • Data Engineer (Founding team of 5) • Built automated crawlers, scrapers & data pipeline • Created a business model based on ad/affiliate revenue • FICS'23 finalist Upwork Data Engineer (Freelance) • Delivered data engineering solutions, exceeding client expectations. • Specialized in ETL, web scraping, and automation.	



Navaira Rehman



Muhammad Hassaan Qaisar

<div>Details Cell: 923211077923 Email: nrehman.bese21seecs@seecs.edu.pk Address: RAJA HAFEEZ UR REHMAN SDO,VILLAGE AND POST BOYSOFFICE PANJERI,NEAR GOVT. HIGH SECONDARY SCHOOLPANJERI,TEHSIL AND DIST. BHIMBER AJK Bhimber , Pakistan</div>		<div>Professional Profile Keen to learn and grow as a Machine Learning Engineer with expertise in advanced AI and ML technologies, including Computer Vision and Generative AI. Skilled in developing innovative solutions and managing large teams or organizations to drive success and efficiency.</div>	
<div>Technical Skills<ul style="list-style-type: none">• Computer vision• Specialization in python• Data science• Mongodb (database)• Gitflow• Flask, flutter, aws cloud• Tensorflow/pytorch• C++,python, linux(basic)</div>		<div>Education BE Software Engineering School of Electrical Engineering and Computer Science , 3.45 Matric / O levels , (2019) Intermediate / A levels , (2021) Bachelors in Software Engineering National University of Sciences and Technology , 3.45/4.0 (2025) Fsc Pre-Engineering Kashmir Model College , 97.9% (2021)</div>	
<div>Soft Skills<ul style="list-style-type: none">• Teamwork, flexibility• Leadership and communication• Time management• Problem solving and innovation</div>		<div>Internship Experience RapidsAI (01-Aug-2024 - 01-Jan-2025) Worked as a Machine Learning Intern. Hands-on experience in applying AI to Personalized Medicine and Genetics, utilizing open-source tools and cutting-edge technologies. Moboroid (01-Jul-2022 - 01-Aug-2022) Worked as a Web Enigneering Intern. Gained a solid understanding of web engineering basics and applied them in a real-world setting by contributing to an under development e-commerce website. InLights (01-Nov-2022 - 01-Jan-2023) Worked as a Software Analyst. Created comprehensive Software Requirement Specifications (SRS) and Software Design Specifications (SDS) based on the system workflow.</div>	
<div>Reference To be furnished upon request.</div>		<div>Projects Generating 3D Facial Models using DNA data (FYP) Working on developing advanced deep learning and generative AI pipelines to predict human face using DNA data. Used tools like MATLAB and Meshlab for 3d data preprocessing and explored techniques for efficient handling of high dimensional 3d and DNA data. Ancestry Prediction using DNA data: Developed a model for ancestry prediction using DNA data, focusing on local ancestry inference with SALAI Net to enhance accuracy and resolution. Conversion 2D images to 3D data Researched and experimented with models and techniques for 2D-to-3D data conversion for my FYP, gaining hands-on experience with open-source technologies and foundational models. Android Malware Detection using images Developed a pipeline to convert APK files into images and trained a malware detection model using DEIT. Automated feature extraction and classification.</div>	

<div>Details Cell: 923149875336 Email: hassaanqaisar2@gmail.com Address: HOUSE NO 2 STREET 4 SECTOR D WEST DHA 1 ISLAMABAD Rawalpindi , Pakistan</div>		<div>Professional Profile Highly motivated and results-oriented Software Engineer with 1 year of experience building scalable and user-friendly software solutions. As an undergraduate in Software Engineering, I have gained practical expertise in diverse areas, including website development, databases and machine learning.</div>	
<div>Technical Skills<ul style="list-style-type: none">• Web scraping• Front end web development• Html, css, javascript• Mongodb, express, node.js• Web development• React / node.js / apis• Database (mysql)</div>		<div>Education BE Software Engineering School of Electrical Engineering and Computer Science , 3.31 Matric / O levels , (2019) Intermediate / A levels , (2021) Pre Engineering Sir Syed College Mall Road , 1079/1100 (2021) Bachelor in Software Engineering National University of Sciences and Technology (NUST) , 3.32 (2025)</div>	
<div>Soft Skills<ul style="list-style-type: none">• Teamwork, flexibility• Leadership and communication• Problem solving skills• Time management</div>		<div>Internship Experience DoDAO (01-Jul-2024 - 31-Jan-2025) Built a comprehensive asset analysis dashboard on Dune, identifying key investment parameters and writing SQL queries to extract and visualize data through time series graphs. Developed and tested DoDAO's academy site, a full-stack web application using NextJS, Prisma, and GraphQL to deliver blockchain educa DSPORTSHUB (01-Aug-2024 - 30-Nov-2024) Developed key functionalities and user interfaces for coach, referee, dietitian, and physician perspectives in the main product, DSPORTSHUB. Enhanced user experience and resolved numerous issues in the company's blog website, implementing comment, reply, and like functionalities. Built and integrated 20+ AP WALEE (01-Nov-2023 - 31-May-2024) Developed and maintained 15 dynamic React components based on Adobe XD wireframe, contributing to a user-friendly and engaging 'Social Sensing' project. Performed thorough research and evaluation of sentiment analysis techniques, selecting the optimal approach based on accuracy, efficiency, and scalability</div>	
<div>Reference To be furnished upon request.</div>			

Projects

Microservices-based Photo Gallery Web Application

• Designed and developed a scalable and efficient photo gallery application using a microservices architecture with 6 distinct microservices. • Utilized Node.js for robust backend development and React for a user-friendly and responsive frontend.

Real-time Team Collaboration Web Application

• Created a high-performance team collaboration platform using Next.js for speed, TypeScript for stability, and MongoDB for scalability, enabling seamless collaboration for large teams. • Implemented efficient communication and task management features.

CNN Model for Chest Disease Detection and Classification

• Conducted a comprehensive literature review on the application of CNN models for chest disease detection and classification, analyzing existing research and identifying key trends. • Developed a Convolutional Neural Network (CNN) model to accurately detect and classify various chest diseases based on chest



Taimoor Ikram

Details

Cell: 923099600013
Email: tikram.bese21seecs@seecs.edu.pk
Address: HOUSE #51/52 KALYAR TOWN, UNIVERSITY ROAD, SARGODHA.

Sargodha , Pakistan

Technical Skills

- Blackbox/whitebox testing
- Python socket programming
- Web development frameworks
- Operating systems
- Oracle
- Python/java/c++/octave
- Bash scripting
- Typescript

Soft Skills

- Database design (sql,mongodb)
- Eclipse
- C
- Team workshop
- Filmora
- Coding
- Gui(tkinter)
- Modelsim

Reference

To be furnished upon request.

Professional Profile

Final year student of **Bachelors in Software Engineering** at the National University of Sciences and Technology (NUST), Islamabad with current **CGPA of 3.56 out of 4.0**, looking for a **job as a backend, frontend, full-stack developer or software engineer**.

Education

BE Software Engineering
School of Electrical Engineering and Computer Science , 3.56
Matric / O levels
, (2019)
Intermediate / A levels
, (2021)
Matriculation
Connoisseur Grammar School System , 1057/1100 (2019)
FSc. (Pre-Engineering)
Punjab Group of Colleges , 1072/1100 (2021)

Internship Experience

Optical Networks and Technologies Lab (13-Jun-2023 - 13-Sep-2023)

Devise a vehicular network for emergency electrical vehicles to communicate during times of emergency. The focus of this project was to study the current state of such networks and then devise an approach or algorithm that can further save time and improve vehicle routing efficiency. The algorithm was them i

Projects

Backend and Frontend for Rehmat-e-Insaniyat Foundation

Built the website for an NGO based in Malakwal, from scratch using Django Web Framework. Following are some of the features the site accomplished. - Management of donation drives - Inventory tracking and management - Volunteer registration and management - Visitor end of website for viewing company portfo

Google Cloud Lite

A semester project that took on the challenge of building a Google Drive like image storage application. It allowed users to upload images under a certain storage quota, managed using a micro-service based architecture. Daily limits allow control and check over read and writes, per user, per day to prevent cl

Social Engine Backend

Built from the ground up, this project features a back-end for the management of information coming from different social media platforms like Facebook, YouTube, Instagram etc. This includes information like user platform access tokens, profile insights, posts, comments, chats. The back-end has been built on

Full Stack Web Development for CheveCasa

CheveCasa is a property dealing website, where hotels and people can publish a land advertisement for people to view and contact if they're willing to buy, for Venezuela. While working with the Venezuelan client, I made the entire website from the back-end to the front-end. I developed the whole back-end for



Yuvraj Sagar



Muhammad Ammar

Details Cell: 923025182214 Email: ysagar.bese21seecs@seecs.edu.pk Address: Meghwar Mohalla Ward no. 250 Tehsil samaro, district umerkot, sindh , Pakistan		Professional Profile Highly motivated and results-driven AI developer with a passion for large language models (LLMs), deep learning, and machine learning. Known for delivering performance-optimized models through strong problem-solving and analytical skills. My experience spans model fine-tuning, synthetic data curation, and architectures like LLaMa and GPT, alongside proficiency in software engineering, data structures, and high-performance computing with CUDA. Adaptable to diverse research challenges, including data analytics, requirement gathering, and mathematical modeling. Along with these, I also enjoy staying up-to-date with machi learning research and innovation, particularly in the field of LLMs. Eager to contribute to innovative projects that drive societal impact and technological advancement.	
Technical Skills <ul style="list-style-type: none">Agile and waterfall methodsWeb development frameworksConvolutional neural networksRecurrent neural networksComputer visionVmwareData handlingData science		Education BE Software Engineering School of Electrical Engineering and Computer Science , 3.22 Matric / O levels , (2019) Intermediate / A levels , (2021) HSSC Govt. Boys Higher Secondary School , 93.6% (2021)	
Soft Skills <ul style="list-style-type: none">Attention to detailFlexibility and adaptabilityReasoningProblem solving skillsEffective documentationGood listnerEmpathyTeamwork & collaboration		Internship Experience Web Developer Intern (15-Aug-2024 - 15-Oct-2024) Worked on six different ongoing projects from June 2023 to August 2023, contributing to various aspects of development. Enhanced MERN Stack skills, with a focus on responsive frontend development and user-friendly interfaces. Collaborated with a team of four members, ensuring a smooth and coherent work envi	
Reference To be furnished upon request.		Projects 10x Faster CUDA Kernels for LLM Pretraining I have implemented LLM architectures in CUDA C/C++ surpassing performance of native pytorch by 2x to 10x faster LLM Engineering: From finetuning to Model Evaluation Finetuned Llama-3.1 8B, 70B, Llama3.2-3B, Qwen-2.5 14B and 72B on medical dataset using axolotl on runpod GPUs. Merging adapter model with base model. Inferencing LLMs using Transformers and vLLM engines. Evaluated finetuned models on OpenMed and Nous Benchmarks. Created GGUFs in 4,8 and 16 bit form for e	
Details Cell: 923018877291 Email: muhammadammar001002@gmail.com Address: GULBAHAR #04 , MUSTAFA STREET , HOUSE # 65/2B,PESHAWAR. Peshawar , Pakistan		Professional Profile Aspiring LLM Engineer with a strong foundation in AI-driven applications, retrieval-augmented generation (RAG), and model deployment. Passionate about leveraging large language models to develop intelligent systems that enhance productivity, streamline processes, and facilitate human-computer interaction. Seeking opportunities to apply problem-solving skills and expertise in Python, Hugging Face models, and vector databases to innovative AI projects.	
Technical Skills <ul style="list-style-type: none">Web development frameworksMysql & python programming lanFlutter apps developmentPython, c++, java, javascriptMachine learning		Education BE Software Engineering School of Electrical Engineering and Computer Science , 3.04 Matric / O levels , (2018) Intermediate / A levels , (2020) Bachelors In Software Engineering SEECs , NUST , 3.04 (2025)	
Soft Skills <ul style="list-style-type: none">Team workshopLogical and conceptual learnerFlexibility and adaptabilityTime managementProblem solving and innovation		Internship Experience PakSoftware (01-Jul-2023 - 06-Aug-2023) Android Application Development	
Reference To be furnished upon request.		Projects Knowledge Worker For A Fictitious Insurance Company With End-To-End RAG This project is an AI-powered knowledge retrieval system that leverages Retrieval-Augmented Generation (RAG) to provide precise, context-aware responses. It integrates large language models (LLMs) with a custom knowledge base from a fictitious company, ensuring that responses are not only accurate but also ta Meeting Minutes Generator Designed and implemented an AI-driven system that transcribes and summarizes meeting discussions, providing structured and concise minutes for improved productivity. Sales Assistant for Airline Bookings Developed an AI-powered assistant that helps users check ticket prices for available flights and facilitates bookings upon request for a fictitious airline company.Generates image of the desired city and provided end to end audio conversation.The system leverages tools and APIs within GPT to fetch flight dat	

<div></div>		<div></div>	
<div>Ahmed Obaidullah</div>		<div>Laiba Atiq</div>	
<div>Details</div> <div>Cell: 923358522409</div> <div>Email: xtremepokem@gmail.com</div> <div>Address: House 14, Street 225, Phase 1, Jinnah Gardens</div> <div>Islamabad , Pakistan</div>	<div>Professional Profile</div> <div>Aspiring Software Engineer passionate about solving complex challenges and building impactful solutions. Skilled in full-stack development with expertise in MERN and Next.js frameworks. Seeking opportunities to leverage technical skills and problem-solving abilities to drive innovation and accelerate professional growth.</div>	<div>Details</div> <div>Cell: 923365017820</div> <div>Email: laiba0276malik@gmail.com</div> <div>Address: CB 741/12, PIA Colony Range Road Rawalpindi</div> <div>Rawalpindi , Pakistan</div>	<div>Professional Profile</div> <div>Results-driven Software Engineering student with a strong business analysis background seeking to leverage technical expertise in AI/ML and data analytics to drive business growth and operational efficiency. Experienced in competitive benchmarking, market positioning, and developing data-driven strategies that transform technical solutions into measurable business outcomes. Committed to bridging the gap between technology and business needs through innovative problem-solving and effective stakeholder communication.</div>
	<div>Education</div> <div>BE Software Engineering School of Electrical Engineering and Computer Science , 2.86 Matric / O levels , (2019) Intermediate / A levels , (2021) Bachelors of Engineering in Software Engineering SEECs , 2.86 (2025) Intermediate (Pre-Engineering) KRL Model College for Boys, Kahuta , 97.36% (2021)</div>		<div>Education</div> <div>BE Software Engineering School of Electrical Engineering and Computer Science , 3.24 Matric / O levels , (2019) Intermediate / A levels , (2021) Bachelors of Engineering in Software Engineering SEECs , 3.24 (2025)</div>
	<div>Soft Skills</div> <div><div>Analytical thinking</div><div>Reasoning and resilience</div><div>Communication skills</div><div>Conflict management</div><div>Flexibility and adaptability</div><div>Effective documentation</div><div>Time management</div><div>Teamwork & collaboration</div></div>		<div>Soft Skills</div> <div><div>Agile and waterfall methods</div><div>Web development frameworks</div><div>Android</div><div>Python/java/c++/octave</div><div>Ftk</div><div>Javascript (es6)</div><div>React</div><div>Mongodb (database)</div></div>
	<div>Reference</div> <div>To be furnished upon request.</div>		<div>Reference</div> <div>Name: Sehrish syed Company: Puresquare Phone: +92 302 2302019 Email: sehrish.syed@purevpn.com</div>
<div>Projects</div> <div><div>safAI</div><div>Our final year project, safAI, is an AI-driven garbage detection platform that leverages satellite imagery and machine learning to identify waste in large-scale environments. It features image segmentation, cloud deployment, and a user-friendly web interface. The project is built using TensorFlow, Next.js, P</div></div> <div><div>Genius</div><div>Genius is an AI-powered SaaS platform that enables users to effortlessly generate diverse content—including images, videos, music, code, and text-based interactions—using AI models. The platform features a user-friendly interface and integrates with Gemini, Cloudflare Workers AI and HuggingFace, providing a s</div></div> <div><div>BidCars Clone</div><div>Collaborated on a freelance project to develop the frontend for a Miami-based client, creating a digital platform for buying and shipping automobiles, inspired by BidCars. Key features implemented include automobile bidding and a payment gateway, utilizing React.js, React Redux, Node.js and Express.js.</div></div>		<div>Internship Experience</div> <div><div>PureSquare (01-May-2023 - 10-Mar-2025)</div><div>1. Conducted competitive benchmarking on content marketing, demand generation strategies, and market positioning. 2. Analyzed competitors' organic and paid acquisition channels, including SERP performance, PPC campaigns, and social media presence, to identify growth opportunities. 3. Performed SEO audits, k</div></div> <div><div>China-Pakistan Intelligent Systems (CPInS) Research Lab - NUST, Islamabad (01-Jul-2024 - 31-May-2025)</div><div>1. Conducting in-depth research on AI-powered educational tools, focusing on NLP-driven chatbots for enhanced classroom engagement. 2. Designing an NLP-driven system using RAG based approach to process lecture notes and presentations (PDF and PPTX), ensuring accurate, real-time student query responses. 3. L</div></div> <div><div>Codeswave - Islamabad (01-Jun-2023 - 31-Aug-2023)</div><div>1. Developed and optimized machine learning models to enhance digital experiences and automation. 2. Conducted data preprocessing, feature engineering, and hyperparameter tuning for improved model performance. 3. Applied NLP and deep learning techniques for text analysis, classification, and recommendation</div></div>	
<div>Page No. 72 BESE - Graduate Profile Booklet 2025</div>		<div>Page No. 73 BESE - Graduate Profile Booklet 2025</div>	

Projects

TALIM - An AI-BASED VIRTUAL TEACHING ASSISTANT (VTA)

1. Developing an AI-driven educational assistant leveraging NLP to create a dynamic knowledge base and enable intelligent query resolution. 2. Implementing automated quiz and assignment generation with AI-powered evaluation to optimize learning and assessment. <https://github.com/Abdullahtahirrr/TALIM>

Human Stress Prediction using Machine Learning

Developed a stress prediction system with 77% accuracy using ensemble methods. Implemented TF-IDF vectorization and a voting classifier to improve prediction performance.

LIAME VAULT - Google Cloud Photo Gallery

Architected and Implemented Scalable Microservices Architecture on Google Cloud Platform (GCP). Implemented authentication, storage management and analytics feature. Implemented Robust Frontend Using React.js and Seamless Backend Integration with MERN Stack.

Smart Car Parking System

Designed and simulated a Smart Car Parking System using timed automata in UPPAAL, applying formal method techniques. Utilized formal methods to verify system correctness and efficiency through detailed simulations and system declarations.





NUST School of Electrical Engineering
and Computer Science (SEecs)

NUST, Sector H-12, Islamabad
www.seecs.nust.edu.pk | www.facebook.com/NUST.SEecs