

Sher Ali

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Education

Habib University, BS in Computer Engineering

Aug 2022 – May 2026

- HUTOPS Scholar (100% Merit-Based Scholarship) **CGPA: 3.51/4.0**

Experience

Software Engineer - Robotics and AI - Dawlance Arcelik, Pakistan

Sep 2025 - Present

- Architected a computer vision-integrated robotic gantry for high-speed palletizing; **optimized throughput to 1500+** microwaves daily while eliminating high-risk manual handling tasks.

Computer Vision Intern - Agha Khan University Hospital, Karachi, Pakistan

Aug 2025 – Sep 2025

- Trained and optimized the AI model pipeline for dental healthcare proprietary dataset, which provided remote health-care access to over **1000+** monthly patients.

Undergraduate Researcher, Habib University, Karachi

May 2025 – July 2025

- Developed a Virtual Reality-Based Evacuation Drill System using Unity and **Meta-VR-Headsets**.
- Wrote the research paper based on our findings related to Virtual vs Physical evacuation drill environment.

AI Development Intern, ASF Tech Partner Pvt Ltd (Singapore), Remote

May 2025 – July 2025

- Developed a Business Onboarding Platform for the UAE and KSA using the MERN stack and an AI RAG-based chatbot with FastAPI, which reduced onboarding time by 30% for over 50 clients.

TA for Computer Vision, Linear Algebra, and OOP, Habib University, Karachi

Jan 2025 – May 2025

- Conducted weekly recitations and 10+ hours of office hours on computer vision, boosting 40+ students' comprehension by 35% and assignment completion by 90%.

RISCV Architecture Verification Intern, 10xEngineers, Remote

Aug 2024 – Oct 2024

- Developed an **Open-Source** RISC-V verification suite with 100% instruction test case coverage, collaborating with **Harvey Mudd College** and 10x Engineers, creating testbenches to ensure robust architecture validation.

Projects

- **AI Powered Business Onboarding Platform:** Built an AI-Powered business onboarding platform for the UAE and KSA.
- **NLP Based Political Discourse Analysis for SemEval Global Competition:** Built the Political discourse analysis model architecture using the latest encoder and attention-based techniques, and ranked **5th** globally
- **Motion Prediction and Generation:** Researched and prototyped motion prediction using VLMs and LLMs for human motion analysis.
- **Open-Source RISC-V Verification Suite:** Developed a verification suite with 100% instruction test case coverage using testbenches, collaborating with Harvey Mudd College, 10x Engineers, and Habib University.
- **Vision-based 4-dof Robotic Arm:** Build an computer-vision based 4-dof robotic arm for pick and place application.

Skills

- **Programming:** Python, C++, JavaScript, SQL, NoSQL
- **Software Engineering and Cloud Computing:** Data Structures, Algorithmic Problem Solving, SDLC
- **AI & Machine Learning:** TensorFlow, PyTorch, OpenCV, LangChain
- **Cloud Computing:** Cloud-Based Data Storage and Processing
- **Productivity:** Microsoft Office Suite, LaTeX, Technical Writing
- **Soft Skills:** Communication, Teamwork, Problem Solving, Leadership

Extracurricular Activities

- **Vice-President:** IEEE Society, **Executive Member:** Entrepreneurship Club, **Logistics Head:** Robotics Competition
- **Top-Delegate:** HUMUN - PNA, **RunnerUp-Delegate:** IBA - MUNIK - DISEC
- **Hachathon:** Lead team in **IFTP Global** and Ranked **5th** in Pakistan
- **Volunteer:** Europe Union Road Show Rep, TCF Rahber Program, Habib 10th Awards Ceremony, Banazeer Liyari Youth Empowerment Program

Certifications

- **Machine Learning Specialization** from Deeplearning.AI
- **Fundamentals of Agentic AI** from IBM and Coursera