

Ayaz Hussain

Full Stack Developer — AI/ML & Deep Learning Engineer

Pakistan (Open to Remote)

☎ +92 323-7964483 | ✉ ayazhussain.bssef22@iba-suk.edu.pk
🌐 linkedin.com/in/ayaz-hussain-cs | 🌐 satisnation.vercel.app

Education

Sukkur IBA University

Aug 2022 – July 2026 (Expected)

Bachelor of Science in Computer Science (BSCS)

- Sindh Endowment Scholarship recipient.
- Programming Club Mentor; guided peers in data structures, algorithms, and Python.

Experience

Co-Founder & CEO

Aug 2025 – Present

EscStack (Software House)

- Founded and scaled a software house specializing in AI-driven and data-centric solutions.
- Led a cross-functional engineering team delivering end-to-end products using MERN, Python, and Java.
- Oversaw full product lifecycle from ideation to production deployment, including LLM-based systems, RAG pipelines, and MLOps workflows.
- Collaborated with clients to translate business requirements into scalable technical architectures.

Full Stack Developer Intern

June 2025 – Aug 2025

Nexium

- Developed scalable web applications using React.js, Node.js, and MongoDB.
- Designed and implemented RESTful APIs following industry best practices.
- Worked in Agile sprints, contributing to code reviews, debugging, and feature optimization.

Campus Ambassador

April 2025 – Present

Artificial Intelligence Community of Pakistan

- Organized AI-focused webinars, workshops, and technical training sessions.
- Promoted AI awareness and community engagement within the university ecosystem.

Key Projects

Siba Sol — RAG-Based AI Assistant

Python, Deep Learning, LLMs, RAG, ChromaDB

- Developed an advanced Retrieval-Augmented Generation (RAG) chatbot to handle university student queries.
- Implemented a robust data ingestion and embedding pipeline for structured and unstructured university documents.
- Delivered accurate, context-aware responses using deep learning models integrated with vector databases.

FixRight — Final Year Project

Full Stack Development, System Design (SRS/SDS)

- Designed comprehensive Software Requirement Specifications (SRS) and Software Design Specifications (SDS).
- Modeled a scalable, service-oriented system architecture focused on maintainability and future growth.

Vendor Registry System

Java, Software Testing, Black-box Testing

- Engineered a vendor registration system emphasizing robustness and quality assurance.
- Conducted extensive black-box testing and use-case modeling to achieve 99.9% system reliability.

Custom ORM Tool

Python, Database Architecture

- Built a custom Object-Relational Mapping (ORM) tool from scratch in Python.
- Optimized query performance by efficiently mapping object-oriented models to relational databases.

Technical Skills

Programming Languages: Python, Java, C++, JavaScript, TypeScript, SQL

AI / ML: Deep Learning, Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), ChromaDB, Keras, Computer Vision

Web & App Development: Next.js, React, Node.js, MERN Stack, Flutter

Tools & Platforms: Git, Linux, Docker, LaTeX, Overleaf