ZOHAIB UMER

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PROFILE

Final-year Software Engineering student focused on AI-driven systems, including retrieval-augmented generation, multi-agent automation, and full-stack web applications. Experience spans a MERN-stack development internship, an ongoing final year project applying RAG to adaptive learning, and independent projects applying large language models to practical problems. Seeking MS study to develop deeper research grounding in applied AI and agentic systems.

EDUCATION

COMSATS University Islamabad, Wah Campus 2023 – 2027 (Expected)

Bachelor of Science in Software Engineering — CGPA: 3.3 / 4.0

- Relevant coursework: Software Construction and Development, Machine Learning, Software Quality Engineering, Data Structures & Algorithms, Object-Oriented Programming

The Scholar Science College, Wah Cantt 2021 – 2023

FSc Pre-Engineering

FINAL YEAR PROJECT

AI-Powered Adaptive Learning Platform (FBISE Curriculum) In Progress, 2026 – 2027

Two-person team; Supervisor: Mr. Waheed Ahmed, COMSATS University

- Building a self-paced learning platform for the FBISE Math/Science curriculum, with a textbook-grounded RAG tutor and chat assistant for topic-level Q&A
- Designing AI-generated quizzes, adaptive revision triggers, and a per-topic mastery score weighted by each topic's importance in FBISE past papers
- Generating full mock exams and readiness reports modeled on real FBISE past-paper question distribution and chapter-weightage trends

PROJECTS

Multi-Agent AI Job Search Automation System

- Designed an 11-agent pipeline automating job discovery, matching, and application tracking end to end
- Built entirely on a free, open-source stack: Groq (Llama 3), ChromaDB for semantic matching, python-jobspy for sourcing listings, and SQLite for persistence

RAG-Based Knowledge Assistant (PDF Q&A)

- Built a full-stack retrieval-augmented generation application for question-answering over uploaded PDF documents
- Backend: FastAPI, LangChain, and FAISS for vector search with a Groq-served LLM; frontend: React/Vite

AI-Powered Hybrid Movie Recommendation System

- Built a recommendation platform combining collaborative and content-based filtering to personalize suggestions
- Stack: React, Python, and REST APIs, with an interactive interface for real-time suggestions

EXPERIENCE

MERN Stack Developer Intern — Eziline Jun 2026 – Sep 2026

- Developed and maintained features across two production MERN-stack platforms, Fabric Hub and Enterprise LMS
- Built REST APIs and UI components using MongoDB, Express, React, and Node.js; collaborated with the team via Git/GitHub

Front-End Developer — Erudite Coaching Center Aug 2025 – Dec 2025

- Developed responsive web interfaces in React and JavaScript, integrating REST APIs for dynamic data rendering

TECHNICAL SKILLS

- **Languages:** JavaScript, Python, Java, C++
- **AI/ML:** LangChain, Retrieval-Augmented Generation, FAISS, ChromaDB, LLM APIs (Groq), prompt engineering, multi-agent system design
- **Web Development:** React, Node.js, Express, MongoDB, MERN stack, FastAPI, REST APIs, HTML/CSS
- **Databases & Tools:** MySQL, SQLite, Git/GitHub, VS Code

CERTIFICATIONS & SCHOLARSHIPS

- English Access Scholarship Program, sponsored by the U.S. Embassy
- Programming for Everybody (Python) — Coursera, 2025; AI For Everyone — Coursera, 2025
- Prompt Engineering for ChatGPT — Coursera, 2025; Generative AI & Chatbot Development — Bano Qabil, 2026