

ZAID ARSHAD (Muhammad Zaid)

Software Engineering Student · Agentic AI & Full-Stack Developer

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SUMMARY

Computer Science student (4th semester, CGPA 3.90/4.00) specializing in Agentic AI systems, Retrieval-Augmented Generation (RAG), and full-stack development. Hands-on experience designing multi-agent LangGraph workflows, RAG pipelines with vector search, and production web applications end-to-end. Completed a software engineering internship applying agentic AI and full-stack methods in a professional setting. Seeking a part-time or internship role to build scalable, intelligent systems using Python, LangChain/LangGraph, and React.

TECHNICAL SKILLS

AI / Agentic Systems: LangChain, LangGraph, Retrieval-Augmented Generation (RAG), Vector Databases, Prompt Engineering, Multi-Agent Orchestration, OpenAI API, Groq API

Languages: Python, C++, JavaScript, TypeScript, Dart, SQL

Frontend: React.js, HTML5, CSS3, Flutter

Backend: Node.js, Express.js, ASP.NET Core Web API, ASP.NET Core SignalR, RESTful APIs

Databases & Cloud: SQL, NoSQL, Vector Databases, Cloudflare R2, Stripe API

Tools: Git, GitHub, Postman, Streamlit, FastAPI

EXPERIENCE

Software Engineering Intern — Glosix Systems, Lahore

June 2026 – August 2026

- Completed a three-month internship focused on Agentic AI and full-stack development, working directly with LangChain and LangGraph in a production engineering environment.
- Contributed to the design and implementation of multi-agent systems and Retrieval-Augmented Generation (RAG) pipelines alongside senior engineers.
- Built and shipped full-stack application features, applying state-machine-driven agent orchestration and modern web development practices.

PROJECTS

Business Plan Generator — Multi-Agent System

2026

Tech: Python, LangGraph, LangChain, Agentic AI

- Built a multi-agent system using LangGraph that autonomously researches markets, analyzes competitors, and generates structured business plans through state-graph-driven agent communication.
- Designed a Market Research Agent that scrapes real-time web data and a Financial Projection Agent that produces 3-year P&L forecasts.
- Delivered a fully formatted, downloadable 15-page business plan document as the end-to-end output.

[GitHub](#) · [Live Demo](#)

Lecture Assistant Agent — LangGraph Workflow

2026

Tech: LangGraph, Groq API, Python, React, PPTX Generation

- Developed a LangGraph-powered agentic workflow that researches a topic, extracts cited claims, and generates dynamic PowerPoint slide decks scaled to a user-defined lecture duration.
- Implemented a two-stage Human-in-the-Loop (HITL) review system allowing users to refine plans and verify facts before final generation.
- Integrated real-time source retrieval, formatting citations as clickable hyperlinks in a modern, dark-themed, downloadable PPTX output, powered by Groq's high-speed LLMs.

[GitHub](#) · [Live Demo](#)

RAG Document Analyzer

2026

Tech: Python, LangChain, Vector Database, OpenAI API

- Built a Retrieval-Augmented Generation tool that ingests PDFs, chunks them into vector embeddings, and answers complex user queries with cited sources.
- Implemented semantic chunking and context-aware query answering through a Streamlit/FastAPI interface.

[GitHub](#) · [Live Demo](#)

Full-Stack E-Commerce Platform

2026

Tech: React, ASP.NET Core Web API, SQL, Stripe, SignalR, Cloudflare R2

- Built a complete e-commerce platform with JWT-based authentication, cart management, and an admin dashboard for inventory and order management.
- Integrated Stripe for payment processing and ASP.NET Core SignalR for real-time customer support messaging alongside an embedded AI assistant for product recommendations.
- Implemented Cloudflare R2 for scalable product image uploads and a streamlined demo checkout workflow.

[GitHub](#) · [Live Demo](#)

Interactive Quiz App — Mobile Application

2025

Tech: Flutter, Dart

- Built a cross-platform mobile application in Flutter featuring timed questions, real-time score tracking, and dynamic question loading.
- Designed a clean, intuitive Material Design UI for an engaging user experience across Android and iOS.

[GitHub](#) · [Live Demo](#)

EDUCATION

BS Computer Science — Superior University, Lahore

2024 – Present

CGPA: 3.90/4.00 | Status: Ongoing, 4th Semester