Muhammad Ahmed Jan Farooqui

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EDUCATION

Lahore University Of Management Sciences   Lahore, Pakistan
Bachelor of Science in Computer Science. 3.69 cGPA.   *Aug. 2021 – May 2025*

EXPERIENCE

Undergraduate Teacher's Assistant   January 2024 - May 2024
Lahore University Of Management Sciences   *Lahore, Pakistan*

- TA for the course Advanced Programming (CS 300)
- Introduced students to advanced coding concepts and paradigms
- Constructed assignments, quizzes, and exams for the students
- Helped students develop an understanding of web development (MERN stack), functional programming, and socket programming.

Teacher's Assistant   Sep. 2020 - May 2021
Nixor College   *Karachi, Pakistan*

- Teacher's Assistant for A Level CS
- Helped students with syllabus content during scheduled office hours

PROJECTS

End-to-End AI Chat Application | *React, Node.js, Flask, Firebase, LangChain*   January 2024 – April 2024

- Developed a fully-hosted AI Chat Application that lets users upload documents and use an LLM to interface with it.
- Developed automated tests using Postman and Selenium.
- Acquired an excellent understanding of various AI tools and libraries such as the OpenAI API, custom agents and LangChain.
- Acquired an excellent understanding of the end-to-end web development process and acquired invaluable hosting experience with tools such as Railways and Firebase

Raft Consensus Algorithm | *Golang, Distributed Programming*   September 2023 - December 2023

- Developed and tested a fully functioning version of the Raft consensus algorithm in Golang
- Made use of various concurrency primitives in Golang.
- Acquired invaluable experience in distributed and concurrent programming.

RAG Powered Chatbot | *Python, LangChain, OpenAI API, Pinecone*   September 2023 - September 2023

- Developed a simple chatbot using LangChain and Retrieval-Augmented Generation, a technique which lets chatbots deal with specific context not seen in their training data.
- Acquired a basic understanding of the implementation details of Retrieval-Augmented Generation, and the LangChain API.

Custom UNIX Shell | *C Programming Language*   September 2023 - October 2023

- Developed a custom UNIX shell in the C Programming Language.
- Acquired an excellent understanding of low-level development, operating systems primitives, and parsing.

TECHNICAL SKILLS

Languages: Golang, Python, C/C++, TypeScript, Rust, Haskell, OCaml, JavaScript, HTML/CSS
Frameworks: React, Node.js, Flask, JUnit, WordPress, Material-UI, Firebase
Developer Tools: Git, Docker, VS Code
Libraries: pandas, NumPy, Matplotlib, pytorch, LangChain