Muhammad Talha

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Education

LUND September 2020 - June 2024
B.S. Computer Science

Alpha College September 2018 - August 2020
A-Levels

Experience

LUN | *Software Developer (Full Stack: TypeScript/Node.js/Next.js/Express)* June 2024 – October 2024

- Implemented a custom search algorithm using Cassandra on an at-rest encrypted database, ensuring security and efficiency.
- Singlehandedly deployed attachment functionality, managing the complete development lifecycle for front-end and back-end integration.
- Collaborated with design and product teams to create user-centric applications adhering to design principles and user flow requirements.

Personal Projects

Yohsin Connect | *['Python', 'LangChain', 'FAISS', 'PyTorch', 'TensorFlow']* 2024

- Developed a Retrieval Augmented Generation (RAG) chatbot to provide instant responses to inquiries from prospective students at Habib University.
- Integrated advanced LLM models using TensorFlow and PyTorch to understand and generate human-like responses.
- Utilized LangChain for streamlined implementation of chat functionalities and FAISS for efficient information retrieval from a large vector database/store of university-related documents.

Skills

languages: C/C++, Python, JavaScript, HTML/CSS, CUDA, SQL, LaTeX
skills: Git/GitHub, Bash, Yaml, Docker, FASTAPI