Muhammad Talha

 /Talha771   in/tjbravo   talha.j771@gmail.com   (214)–909-3357

EDUCATION

Habib University   September 2020 - June 2024
B.S. Computer Science

Alpha College   September 2018 - August 2020
A-Levels

Saint Michaels Convent School   September 2004 - September 2018
Primary - O levels

EXPERIENCE

QLU | *Software Developer (Typescript/Node/NextJS/Express)*   June 2024 – Current

- Design and develop cutting-edge web application.
- Colloborate with design and product team to create applications that comply with design and user flows
- Use best-practices and industry standard tools such as git, eslint, Kanban, JIRA and Linear.

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PERSONAL PROJECTS

Yohsin Connect | *Python, LangChain, FAISS, PyTorch, TensorFlow*   Ongoing
- Developed a Retrival 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.
- Ensured seamless operation and scalability of the chatbot by deploying it with Streamlit

Personal Home Lab and Smart Home Setup | *YAML, Python, Docker,*   Ongoing
- Configured diverse services: Jellyfin, Home Assistant, Transmission Daemon with public access
- Managed Docker containers for efficient deployment

BomberMan Clone | *C++, SDL2, SPRITE ANIMATIONS, POLYMORPHISM*   December 2021
- Recreated the famous bomberman game in C++ using SDL2 including sprite animations, and custom game mechanics
- Implemented OOP design patterns, polymorphism

Sorting Visualizer | *Python,Tkinter,Data Structures*   August 2022
- Developed a real-time sorting algorithm visualization tool using Tkinter, showcasing sorting algorithms' step-by-step processes to enhance understanding.

SKILLS

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