





# Muhammad Talha

 /Talha771  in/tjbravo  mj06974@alumni.habib.edu.pk  (945)-233-0735

## EDUCATION

**Habib University**  
*B.S. Computer Science*

September 2020 - June 2024

**Alpha College**  
*A-Levels*

September 2018 - August 2020

## SKILLS

**Languages:** C/C++, Python, JavaScript, HTML/CSS, CUDA , SQL, Typescript

**Tools:** Git/GitHub, Bash, Yaml, Docker, FASTAPI, React, NodeJs, NextJs, Express, RestAPIs

## EXPERIENCE

**Jacqueline Construction** | *Software Developer (Typescript/Node/NextJS/Express)*      October 2024 – Current

- Developed a full-stack job tracking application that reduced project reporting time by 30 minutes per day for construction managers
- Collaborated with Upper Management and stakeholders to ensure seamless user experience, increasing adoption rate by 40% among site supervisors.
- Created scripts and tools inhouse to simplify account reconciliation and automate time tracking and create time tracking reports.

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

- Designed a custom search algorithm using Cassandra, increasing data retrieval speed by 50% while maintaining encryption security.
- Built and deployed an attachment management system that handled 10,000+ files daily, streamlining document processing for clients.
- Worked closely with stakeholders to enhance user experience, leading to a 20% increase in customer engagement.

## PROJECTS

**Yohsin Connect** | *Python, LangChain, FAISS, PyTorch, TensorFlow*      2024

- Developed an AI chatbot that instantly responds to prospective students' questions, reducing inquiry response time by 80%. .
- Integrated TensorFlow and PyTorch LLM models to generate human-like answers, improving response accuracy by 35%.
- Leveraged LangChain and FAISS for optimized information retrieval from large university document databases.

**Personal Home Lab and Smart Home Setup** | *YAML, Python, Docker,*      Ongoing

- Set up and managed multiple smart home services like Jellyfin for media streaming, Home Assistant for automation, and Transmission Daemon for file sharing.
- Used Docker to efficiently organize and deploy these services, ensuring everything runs smoothly with minimal effort.

**BomberMan Clone** | *C++, SDL2, SPRITE ANIMATIONS, POLYMORPHISM*      December 2021

- Recreated the classic Bomberman game from scratch, adding animations and custom features to make the game more dynamic.
- Designed the game using organized coding practices, which improved the code's flexibility and made it easier to update or expand.