

# Muhammad Talha

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## EDUCATION

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

September 2020 - June 2024

## SKILLS

**Languages:** C/C++, Python, JavaScript, HTML/CSS, CUDA , SQL, Typescript  
**Tools:** Git/GitHub, Bash, Yaml, Docker, FASTAPI, React, NodeJs, NextJs, Express, RestAPIs, Unix

## 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 70%.
- Collaborated with Upper Management and Site Supervisors to ensure seamless user experience, increasing adoption rate by 40% among site supervisors.
- Automated toll tracking with NTTA API integrations to generate automated driver-level reports
- Deployed a time tracker for billable hours by project to support accurate P&L generation.

**QLU.AI** | *FullStack Engineer – TypeScript, Node.js, Next.js, Express* June 2024 – October 2024

- Developed a high-performance, Cassandra-backed search algorithm, improving query speed by 50% while ensuring end-to-end data encryption.
- Engineered and deployed a scalable attachment system processing over 10,000 files daily, optimizing file handling for clients.
- Partnered with designers and product stakeholders to revamp core user flows, leading to a 20% increase in user engagement.

**Systems Limited** | *Backend Development Intern – Java, Springboot, JBDC* June 2024 – October 2024

- Designed and developed an end-to-end internal ticket tracking system with two service variants using SOAP and REST APIs.
- Built backend services using Node.js and Express, exposing both SOAP and REST endpoints, and implemented business logic via modular servlets and microservices.
- Developed a mock frontend with Next.js to simulate user interactions and visualize ticket data for internal QA and stakeholder demos.

## 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.

**Custom Unix Shell Implementation** | *C, Unix/Linux Systems Programming, Process Management* 2024

- Developed a fully functional Unix shell from scratch, implementing core features like process management, pipe operations, and signal handling
- Implemented built-in commands and system calls demonstrating deep understanding of Unix/Linux internals

**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.