

# Muhammad Taha

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## Education

**NED University of Engineering and Technology, Karachi**

Bachelor of Engineering, Software Engineering.

2020-2024

**Relevant Coursework:** Data Structures, Algorithms, Database Systems, Operating Systems.

## Experience

**Digital Dividend Global**

Karachi, Sindh

**Full stack developer**

11/2024 - present

- **Full-Stack Development:** Engineered and maintained scalable web applications using modern frameworks (MERN and Angular), ensuring seamless integration between complex front-end interfaces and robust back-end logic.
- **API & Data Management:** Designed and integrated secure RESTful APIs and managed database schemas, prioritizing data integrity and efficient retrieval for high-traffic environments.
- **Agile Collaboration:** Contributed actively to the full Software Development Life Cycle (SDLC) within an Agile framework, participating in sprint planning and code reviews to meet rigorous project deadlines.
- **Performance Optimization:** Improved application responsiveness and user experience by implementing advanced state management, lazy loading, and mobile-first design principles.
- **Problem Solving & Quality:** Identified and resolved critical software defects through comprehensive debugging and unit testing, significantly increasing system stability and code reliability.

**Coderatory**

Karachi, Sindh

**Full stack internship**

05/2024 - 07/2024

- **Full-Stack Implementation:** Contributed to the development of responsive front-end interfaces and scalable back-end services, gaining hands-on experience with modern web architectures.
- **Debugging & Stability:** Assisted in identifying and troubleshooting complex code issues, reducing software bugs and improving overall system stability during the development phase.
- **Feature Design:** Collaborated with senior developers to design and implement new functional features, ensuring high-quality solutions that met project requirements.
- **Technical Documentation:** Authored clear development procedures and documentation, streamlining future project maintenance and team onboarding processes.

**Karachi Development Authority**

Karachi, Sindh

**Intern**

05/2023- 07/2023

- **Network Administration:** Gained hands-on experience in monitoring and maintaining local area networks (LAN) to ensure consistent connectivity across departments.
- **Management:** Assisted in the daily operations of the server room, learning about hardware configurations, server maintenance, and data backups.
- **Hardware Troubleshooting:** Supported the IT team in diagnosing and resolving hardware and connectivity issues, improving system uptime.
- **Infrastructure Security:** Learned best practices for physical and digital server room security, ensuring the integrity of critical government infrastructure.

## Projects

### **E-Commerce Platform (Next.js, Node.js, Stripe, MongoDB)**

- Developed a high-performance e-commerce solution featuring a seamless guest checkout flow and secure payment processing via Stripe API.
- Integrated Stripe Webhooks for secure transaction verification and implemented global loading states to ensure a smooth user experience.

### **PathFinder AI (Next.js, MongoDB, Gemini 3.0)**

- Architected Pathfinder AI, a career intelligence platform utilizing Large Language Models (LLMs) to parse unstructured resume data and automate hyper-personalized technical learning roadmaps.
- Engineered a robust resume-parsing pipeline that handles asynchronous file uploads, extracts key developer skill sets, and normalizes messy career histories into structured JSON data.
- Implemented an agentic roadmap generation engine that maps out sequential skill acquisition steps, matching user career targets against real-world engineering prerequisites.
- Optimized client-side state management in React to smoothly stream AI responses and display dynamic, interactive visual timelines for generated learning paths.

### **Real-Time Chat Application (React, Node.js, Socket.io)**

- Architected a real-time messaging platform supporting private rooms, instant message delivery, and user presence tracking using WebSockets.
- Implemented JWT-based authentication and stored chat history in MongoDB with optimized indexing for fast message retrieval.

## Skills & Interests

**Technical Skills:**

Programming Languages: JavaScript, Python, C++

Web Development: React.js, Angular.js, Node.js, Express.js

Databases: MongoDB, MySQL

**Languages:**

English (Fluent), Urdu (Native)

**Interests:**

Coding, Problem-solving, Reading tech blogs, Playing chess, Table tennis