

MUHAMMAD TAHIR

Karachi, Pakistan

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SUMMARY

Software Engineer with 1.5 years of experience in designing and developing **scalable backend systems** and **real-time applications**. Skilled in **Node.js, NestJS, Express.js, and MongoDB**, with a strong focus on **clean code, performance optimization, and secure authentication**. Experienced in collaborating with cross-functional teams to deliver **business-critical solutions**.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, SQL, Solidity, HTML, CSS

Libraries & Frameworks: Node.js, NestJS, Express.js, React.js, Next.js, Socket.IO, Web3.js

Databases: PostgreSQL, MongoDB, MS SQL Server, MySQL, Redis

Tools & Technologies: Git, GitHub, Linux, Postman, Swagger, AWS S3, Supabase, MinIO, REST APIs

EXPERIENCE

QBS Co

July 2024 - Present

NodeJS Developer

- Developed and maintained scalable RESTful and real-time APIs using **Node.js, NestJS, and Express.js**.
- Implemented secure authentication, authorization (**JWT**), and session management to protect user data.
- Designed & optimized database schemas with **MongoDB & PostgreSQL**, applying indexing & query best practices.
- Integrated **real-time communication (Socket.IO)** and caching with **Redis**, ensuring efficient system performance & smooth communication across multiple clients..

TechDot Solutions

May 2024 - July 2024

Internship

- Gained hands-on experience in backend development fundamentals, including **API design, database modeling, and request validation**.
- Built mini-projects using **Express.js, MongoDB, and MySQL**, applying event-driven architecture concepts.
- Learned and practiced **version control with Git/GitHub**, collaborating on small team-based tasks.
- Strengthened understanding of **clean code practices, modular structure, and debugging techniques**.

PROJECTS

E-Commerce Platform

- Developed a full-featured **e-commerce backend** using **NestJS, TypeScript, and PostgreSQL**, implementing product management, authentication, and order workflows.
- Integrated **Prisma ORM** for efficient database queries and schema design, and used **AWS S3** for secure media storage.
- Tech Stack:** NestJS, TypeScript, PostgreSQL, Prisma, AWS S3

Real-Time Chat Application

- Developed a scalable chat platform using **Node.js, Express.js, MongoDB, and Socket.IO**, enabling instant messaging across multiple users.
- Integrated **JWT authentication** and secure session handling, ensuring privacy and reliable communication.
- Tech Stack:** Node.js, Express.js, MongoDB, Socket.IO

Admin Panel / CMS

- Created a multilingual **CMS/Admin panel** using **Next.js and MongoDB**, with backend features for **user authentication (JWT)** and file handling via **AWS S3**.
- Designed flexible data structures for managing product details across multiple languages and regions.
- Tech Stack:** Next.js, MongoDB, JWT, AWS S3

EDUCATION

Dawood University of Engineering & Technology

2020 - 2024

BS Computer Science

Karachi