

Muhammad Moeen

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About Me

I am a software engineer with over 5 years of experience in developing full-stack web applications, REST & GraphQL APIs, microservices & CLIs. I specialize in building high-performance and reliable solutions. I am proficient in cloud computing on AWS, Google Cloud Platform (GCP), SQL / NoSQL databases like PostgreSQL and MongoDB. I utilize Test-Driven Development (TDD) and Agile methodologies to build optimized and resilient applications that enhance business outcomes.

Experience

Back-end Developer

09/2024 – Present
Remote

The Moonshot Factory

- Resolved microservice timeouts caused by long-running SQL queries by migrating several services from PostgreSQL to Neo4j, drastically improving query times from over 1 minute to under 300ms.
- Addressed the challenge of inconsistent access control policies across microservices by developing an authorization framework for GraphQL APIs. This solution enabled microservices to define their own specific user access controls, significantly reducing code duplication and accelerating the addition of new features.
- To enable detailed analyses of business IT asset inventory data from diverse cloud environments, I developed AWS and GCP service integrations that facilitated on-demand and event-based crawling, providing consistently up-to-date asset insights.

Full-stack Developer

11/2023 – 09/2024
Lahore, Punjab

Stack360

- To ensure reliable communication and support for offline services within a microservices architecture, I developed and deployed an RPC communication mechanism utilizing RabbitMQ which dramatically enhanced overall system resilience.
- I addressed the critical challenge of processing large QR code batches by implementing a background job processing system in NodeJS. This solution enabled the product to reliably handle the generation of thousands of QR codes daily.

Full-stack Developer

08/2020 – 10/2023
Lahore, Punjab

OSO Software Outsourcing

- Due to increased workloads, I solo-implemented a back-end system featuring over 150 REST endpoints and 400 integration tests within three months, ensuring the project's smooth launch and stable operation.
- To automate the initial candidate screening for an HR firm, I developed a web application utilizing AI technologies (OpenAI, D-ID, Whisper). This solution enabled fully autonomous candidate screening, drastically reducing manual effort.

- Addressed the challenges of drafting complex legal documents by developing a platform enabling legal firms to dynamically create, digitally sign, and share legal documents. This made the entire process significantly easier and quicker.
- Held sessions with clients to outline scope of work, system requirements and workflow documents for 20+ projects, leading to effective project planning and costing-estimation.

Education

Bachelors of Computer Science

2020

Pak AIMS

A-Levels

2013

National Grammar School

Skills

Languages

Javascript, Typescript, Golang, Java

Back-end

Express, Nest.js, ServeMux, Gin, Echo

Front-end

React, Next.js, Tailwind CSS, Alpine

Databases

PostgreSQL, MySQL, MongoDB, Neo4j

Messaging

RabbitMQ, GCP Pub/sub

Architecture

Monoliths, Microservices, Event-driven Architecture, CQRS, Event-sourcing

Clouds

AWS, GCP

Tools

Jira, Git, Github, Linux, Bash