Muhammad Moeen - Software Engineer

+92 336-4220030 | moeen.v8@gmail.com | linkedin.com/in/moeenn | moeenn.github.io

Professional summary

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

Skills

Languages	Javascript, Typescript, Golang, Java
Back-end	Express, Nest.js, Gin, Echo
Front-end	React, Next.js, Tailwind CSS
Databases	PostgreSQL, 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

Work history

Back-end Developer, The Moonshot Factory – Remote   Sep 2024 – Present

- 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 building an authorization framework for GraphQL APIs. This solution equipped microservices to define their own specific user access controls, significantly reducing code duplication and accelerating the addition of new features.
- Enabled detailed analyses of business IT asset inventory data from diverse cloud environments, implemented AWS and GCP service integrations that facilitated on-demand and event-based crawling, providing consistently up-to-date asset insights.

Full-stack Developer, Stack360 – Lahore, Punjab   Nov 2023 – Sep 2024

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

Full-stack Developer, OSO Software Outsourcing – Lahore, Punjab   Aug 2020 – Oct 2023

- Due to increased workloads, 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.
- Integrated D-ID's facial animation technology into the screening application, creating realistic AI avatars that autonomously conduct initial interviews, screening over 50 candidates weekly.
- Addressed the challenges of drafting complex legal documents by authoring a platform for 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

Pak AIMS – Bachelors of Computer Science	2020
National Grammar School – A-Levels	2013