

Muhammad Moeen - Software Engineer

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Professional summary

Software engineer with almost 6 years of experience in developing full-stack web applications, REST & GraphQL APIs, microservices & CLIs. Specializing in building reliable applications with large data throughput. 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

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| Languages | Javascript, Typescript, Java |
| Back-end | Express, Nest.js, Next.js, Javalin |
| Front-end | React, Tailwind CSS |
| Databases | PostgreSQL, MongoDB, Neo4j |
| Messaging | RabbitMQ, GCP Pub/sub |
| Architecture | Monoliths, Microservices, EDA, CQRS, Event-sourcing |
| Clouds | AWS, GCP |
| Tools | Jira, Git, Github, Linux, Shell (Bash) |

Work history

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| Back-end Developer, The Moonshot Factory – Remote | Sep 2024 – Present |
| <ul style="list-style-type: none">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 |
| <ul style="list-style-type: none">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 |
| <ul style="list-style-type: none">Handled 10+ projects, from initial scope discussions, development to market release and maintenance for multiple clients.To ensure stable operations, implemented and tested a back-end system featuring over 150 REST endpoints and 400 integration tests within three months.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

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