

# Muhammad Moeen - Software Engineer

+92 336-4220030 | [moeen.v8@gmail.com](mailto:moeen.v8@gmail.com) | [moeenn.github.io](https://github.com/moeenn) | [linkedin.com/in/moeenn](https://linkedin.com/in/moeenn)

## Professional summary

---

Senior Software Engineer with 6+ years of experience specializing in high-performance system architecture and microservices. Proven track record of leading small engineering teams (2–4 members) through the full SDLC, optimizing business-critical systems for low latency and high reliability.

## Skills

---

**Languages:** Golang, TypeScript, JavaScript, Bash

**Backend:** Golang (Echo/Chi/ServeMux), Node.js (Express/Fastify/Nest/Next), REST APIs, GraphQL

**Frontend:** React, Tailwind, Redux, Zustand, HTML/CSS, HTMX, Alpine.js

**Databases:** PostgreSQL, MongoDB, Neo4j

**Testing:** Go Test, Node Test

**Cloud & DevOps:** AWS, GCP, Docker, Linux, Git

## Work history

---

**Full-stack Developer**, The Moonshot Factory – Remote

Sep 2024 – Present

- Optimized mobile user experience by implementing a lightweight frontend architecture using HTMX and Alpine.js, reducing bundle sizes and execution/hydration lag compared to standard SPA frameworks.
- Engineered a data ingestion layer integrating Hostaway, Hospitable, and Airbnb APIs using exponential backoff to navigate rate limits, achieving 99.9% sync success.
- Normalized disparate PMS data into a unified model for real-time dashboards tracking earnings, occupancy, and market trends.
- Optimized complex multi-table relational queries by migrating core microservices to Neo4j, leveraging graph relationships to reduce query latency by 99.5% (60s to <300ms).
- Built a GraphQL authorization framework, replacing per-service auth setups, enabling microservices to declare resource-level access rules, eliminating duplicate logic, simplifying audits, and accelerating feature development.
- Implemented AWS and GCP service integrations for on-demand and event-based crawling of IT asset data. Enabled continuous, up-to-date inventory insights across diverse cloud environments.

**Full-stack Developer**, Stack360 – Lahore, Punjab

Nov 2023 – Sep 2024

- Built an RPC layer over RabbitMQ for offline microservice calls, implementing request routing, timeouts and retries to improve resilience.
- Designed a resilient background job processor with worker pools and idempotency, generating thousands of QR codes daily without blocking frontend requests..
- Built an AI-powered CLI tool for internal usage by the marketing department, that normalizes 10+ image formats to JPG and reduces file sizes by up to 80% via smart compression.
- Integrated OpenCV ESPCN deep learning models for 3x intelligent upscaling, outperforming traditional interpolation methods.

**Full-stack Developer**, OSO Software Outsourcing – Lahore, Punjab

Mar 2020 – Oct 2023

- Owned end-to-end delivery for 10+ client projects scoping, implementing backend APIs, and shipping production releases.
- Built a backend with 150+ REST endpoints and 400 integration tests in a 3-month period to secure reliable deployments and faster iteration.
- Architected an end-to-end AI candidate screening pipeline using OpenAI, Whisper, and D-ID facial animation. Automated initial interviews for 50+ candidates weekly, significantly reducing HR overhead while maintaining high engagement.
- Built a platform enabling legal firms to dynamically create, sign, and share complex documents, cutting drafting time in half.
- Held sessions with clients to outline scope of work, system requirements and workflow documents for 25+ projects, leading to effective project planning and costing-estimation.

## Education

---

**Pak AIMS** – Bachelors of Computer Science (BSCS) - CGPA 3.8

2020