

SYED MUHAMMAD FAHEEM

FULL STACK ENGINEER

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SUMMARY

Full Stack Engineer with 2+ years building scalable, full-stack platforms across healthcare, government, retail, and aviation. Specialised in React, NestJS, PostgreSQL, and AWS – proficient in REST API development, performance optimisation, and CI/CD pipelines; experienced leading cross-functional Agile teams and frontend architectures from design to production.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, SQL

Frontend: React.js, Next.js, Tailwind CSS, Ant Design, Redux, React TanStack Query

Backend: NestJS, Node.js, Express.js, Flask, REST APIs, WebSockets

Databases: PostgreSQL, MongoDB, Redis, AWS OpenSearch

Cloud & Tools: AWS (S3, SQS, Cognito, Lambda, OpenSearch), Firebase, Docker, GitHub Actions, CI/CD, Stripe, Twilio, Git, Jest, SonarQube

WORK EXPERIENCE

VentureDive

July 2024 – Present

Software Engineer

Karachi, Pakistan

- Led frontend architecture from scratch for 3 enterprise portals; established an Untitled UI + Tailwind CSS design system, built a JSON-configurable library of 10+ reusable UI components, and integrated REST APIs using React TanStack Query – standardising development patterns across the entire frontend codebase.
- Engineered scalable backend features for an AI-powered government employment platform using NestJS and PostgreSQL; integrated 3 AWS services – OpenSearch for full-text global search, Redis for query performance optimisation, and SQS for async AI/ML data pipelines – improving platform scalability and search responsiveness.
- Shipped a multi-tenant compliance PWA in 6 weeks for 2 multinational enterprise clients (Unilever and Colgate); integrated CV model APIs for automated shelf image analysis, built interactive compliance dashboards, and designed the multi-tenant PostgreSQL schema from scratch.
- Built the end-to-end booking management module for a B2C aviation platform, delivering 5 core user flows (flight listing, guest search by booking ID, add-on selection, payment gateway integration, and cancellation with partial refunds) using Next.js, TypeScript, and Firebase; resolved security vulnerabilities surfaced in a formal audit and shipped the full prototype in 2 months.
- Developed custom appointment scheduling (React Big Calendar) and a Twilio-powered 3-channel communication suite (calls, SMS, email) for a healthcare SaaS platform; built a real-time workflow status builder enabling live tracking of patient journey stages using NestJS and PostgreSQL.
- Mentored 5+ interns directly – conducting structured code reviews, unblocking day-to-day technical challenges, and independently owning development of internal marketing tooling – while driving their professional and technical growth through consistent, hands-on mentorship.

National Research Program for Universities – FAST

October 2023 – October 2024

Full Stack Developer (Part-time)

Karachi, Pakistan

- Built a full-stack IoT cattle health monitoring platform (Next.js, Node.js, MongoDB) and a real-time sensor data ingestion service, eliminating manual data collection for remote livestock operations.

Motive (formerly KeepTruckin)

July 2023 – September 2023

Backend Engineer (Intern)

Karachi, Pakistan

- Achieved 25% unit test coverage for the ELD PDF module using Ruby on Rails and Selenium; containerised updated service dependencies via Docker and published images to AWS ECR, strengthening the team's CI/CD pipeline reliability.

EDUCATION

National University of Computer and Emerging Sciences – FAST

May 2024

Bachelor of Science in Computer Science – CGPA: 3.63 / 4.0

Karachi, Pakistan

ACHIEVEMENTS & CERTIFICATIONS

Dean's List ×5 | National University of Computer and Emerging Sciences – FAST

2021, 2022, 2023, 2024

G Certificates Google Drive | Udemy, Coursera, LinkedIn, DataCamp