

Mohammad Farhan Khan

Senior Full Stack Engineer

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Summary

Senior Full Stack Engineer (6+ years) and **Pakistani National born and raised in Bahrain**. Specialized in high-scale distributed systems processing **10M+ daily requests**. Expert in **Angular, Laravel, and Flutter**, with extensive experience migrating monoliths to microservices using **Spring Boot (Hexagonal Architecture)**, **NestJS**, and **RabbitMQ**. Focused on cloud-native optimization and distributed consistency.

Technical Skills

Frontend **Angular (12-17), Flutter, TypeScript, Ionic, SCSS, Tailwind CSS**
Backend **Laravel, Spring Boot (Hexagonal), Node.js (NestJS), Python (Pandas)**
Cloud/Arch **AWS (ECS, RDS, S3), Docker, GitHub Actions, Saga Pattern, RabbitMQ**
Tools/DB **PostgreSQL, MySQL, Redis, API Idempotency, Rate Limiting, JMeter**

Experience

- 2023–Present **Lead Developer, Ahlan Technologies W.L.L, Manama, Bahrain**
- Orchestrated the migration of legacy services to **Spring Boot microservices** using **Hexagonal Architecture** to decouple business logic.
 - Optimized backend throughput to handle **10M+ API requests/day** with sub-200ms latency via **Redis distributed caching** and SQL optimization.
 - Implemented **API Idempotency** and **Rate Limiting** for Fintech services, ensuring transaction integrity and preventing duplicate processing.
 - Achieved **30% reduction in AWS costs** by transitioning to **AWS ECS/ECR** and implementing automated CI/CD via **GitHub Actions**.
- 2021–2023 **Software Engineer, Ahlan Technologies W.L.L, Manama, Bahrain**
- Architected the **Sawag Platform** core; developed custom **Geofencing** logic (Radius + Google Distance Matrix) for optimized real-time driver dispatching.
 - Implemented **Saga Pattern (Orchestration)** with RabbitMQ to manage multi-service order lifecycles and fault tolerance.
 - Built hybrid real-time monitoring systems using a combination of **Firebase Realtime DB** and optimized polling.
 - Modernized legacy Android code to a unified **Flutter** codebase.
- 2019–2021 **Junior Frontend Developer, Telp, Manama, Bahrain**
- Developed a reusable component library in **Angular/Ionic**, standardizing UI across web and mobile.
 - Integrated third-party APIs and implemented error tracking via **Sentry**, reducing crashes by 50%.

Notable Projects

- Wearable IoT Built a **WearOS** health app with Samsung Health SDK; engineered a custom sync engine to preserve battery while maintaining real-time FCM sync.
- Automation Developed Python/C++ automation tools, reducing manual data entry by 20+ hours weekly.

Education

2014–2019 **B.Sc. in Computer Science, University of Bahrain, Bahrain**

Languages

Bilingual **English** (Native-level fluency), **Urdu/Hindi** (Native)