AL AMEEN S

FULL STACK AI ENGINEER & SOFTWARE DEVELOPER

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Profile Summary

Performance-driven Software Engineer specializing in the **MERN stack**, **TypeScript**, **Node.js**, and **scalable backend architectures**. Expert in designing highly decoupled web systems using **Clean Architecture**, **Event-Driven Architecture**, **Microservices**, **CQRS**, and strict **SOLID principles**. Adept at handling **highly concurrent workflows**, **message brokers**, **database index tuning**, and **containerized cloud deployments**, while actively exploring and learning **applied AI**, **LLMs**, and intelligent system workflows. Passionate and curious about engineering and the future of innovation.

Technical Skills

Languages:	JavaScript (ES6+), TypeScript, SQL, Python
Frontend:	React.js, Next.js, Vite, Redux Toolkit, Tailwind CSS, HTML5, CSS3
Backend & Databases:	Node.js, Express.js, REST APIs, GraphQL, gRPC, MongoDB, Redis, MySQL, Firebase, Elasticsearch
Architecture & Patterns:	Microservices, Clean Architecture, SOLID Principles, CQRS, Event-Driven Architecture, Transactional Outbox, Circuit Breaker, RBAC, System Design
Applied AI:	LLMs, RAG (Retrieval-Augmented Generation), Prompt Engineering, Vector Embeddings, Google Gemini API, AI Agents
DevOps & Realtime:	Docker, Kubernetes, AWS (EC2, S3), CI/CD (GitHub Actions), Nginx, Observability (Logs & Metrics), WebRTC, Socket.IO, Apache Kafka, BullMQ, RabbitMQ
Tools:	Cloudinary, Git, Postman, Jira, Slack

Professional Experience

Backend Engineer (Freelance) — **Kochi, India**

Enterprise Billing Software Development — *April 2026 – May 2026*

- Worked on leveling up enterprise billing software to a **scalable architecture**, enhancing inventory control flows, **high-throughput invoicing**, and secure client-handling subsystems.
- Spearheaded the legacy code migration from **JavaScript to TypeScript**, substantially raising system-wide **type-safety**, modular testing capabilities, and long-term codebase maintainability.
- Refactored decoupled application modules toward enterprise **Clean Architecture** and **Repository patterns**, structurally segregating core business logic from concrete database frameworks.

Backend Engineer (Freelance) — **newbstore.com**

NewbStore – Baby Apparel & Accessories E-Commerce Platform — *May 2026 – June 2026*

- Architected and engineered the backend services in **TypeScript** using **Clean Architecture** and the **Repository pattern**, enforcing strict separation of concerns, **SOLID principles**, and industry coding standards.
- Integrated **Razorpay** payment processing with robust **idempotency key** mechanisms and **webhook verification**, preventing duplicate transactions and ensuring **atomic order fulfillment** under network retries.
- Collaborated on a maintainable **Next.js** frontend architecture, designing type-safe **RESTful API** contracts for product catalogs, cart state synchronization, and checkout flows.

Key Projects

spotQ – Multi-Tenant Microservices Restaurant Queue & Operations SaaS spotq.site | GitHub

Tech Stack: Microservices, Clean Architecture, RabbitMQ (DLQ), Docker, CI, Observability, Outbox Pattern, Circuit Breaker, S2S APIs

- Served as **TEAM Lead for a sprint**, leading industry-practiced **Agile-driven Scrum project management** including sprint planning, **burndown chart** tracking, PoC validation, and research-driven documentation aligned with industry standards.
- Architected decoupled microservices following **Clean Architecture** and **first-principles engineering**, building reusable shared packages for **S2S auth**, **Circuit Breakers**, and **RabbitMQ** event messaging with **Dead Letter Queues (DLQ)** alongside the **Transactional Outbox pattern**.
- Engineered real-time queue **ETA prediction** capabilities and configured production-grade infrastructure featuring **multi-stage Docker** builds, **CI pipelines**, and full-stack **observability** (centralized logs and metrics).

Maan – Scalable Microservices Social Media Platform (In Progress - Paused) GitHub

Tech Stack: React, Node.js, Express, MongoDB, Elasticsearch, Apache Kafka, Socket.io, Docker, Microservices, Poly-Repo

- Engineered a decoupled social media application utilizing a **poly-repo architecture** to isolate **microservices** for user-services, posts, real-time chat, media, feed, and notifications, implementing bidirectional instant messaging with **Socket.io**.
- Implemented the **CQRS (Command Query Responsibility Segregation)** pattern, separating write operations in **MongoDB** from real-time high-throughput read operations using **Elasticsearch**.
- Leveraged **Apache Kafka** as an **asynchronous event-driven backbone** to broadcast mutations and synchronize the read-model index with millisecond execution latency under heavy concurrent loads.
- Containerized microservices using **multi-stage Docker builds** to establish consistent, isolated runtime environments across frontend client modules and backend services.

ZipDrinks – Full Stack eCommerce Platform GitHub

Tech Stack: React.js, Vite, Redux Toolkit, Node.js, Express.js, MongoDB, Razorpay, PDFKit, ExcelJS

- Developed a full-stack e-commerce platform using **React**, **Node.js**, **Express.js**, and **MongoDB** with **JWT authentication**, **Google OAuth**, and granular **role-based access control (RBAC)** layers tailored for users and administrators.
- Implemented a complete shopping workflow incorporating advanced client capabilities like coupons, user wallet engines, automated referral metrics, **Razorpay integration**, order returns, and real-time invoice generation.
- Built an analytical admin dashboard for managing catalog entities alongside database-driven sales reporting pipelines utilizing **PDFKit** and **ExcelJS** to systematically export dynamic PDF and Excel data sheets.

Education

Brototype **Kochi, India**

Professional Training in Full Stack MERN Development *May 2025 – Present*

- Completed intensive, project-driven software engineering training centered on building production-ready architectures, concurrent real-time database mechanisms, and optimized systems.
- Recognized as the **Overall Best Performer (January 2026)** out of the cohort for demonstrating exceptional technical architecture execution and consistent project delivery.

Languages

English (Professional Working Proficiency) • Malayalam (Native)