

AL-ROMAN MOLLA

Backend Systems Engineer

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LinkedIn | GitHub | Portfolio

SUMMARY

Building production systems in Java/Spring Boot and TypeScript, from a B2B multi-tenant SaaS with its own payments module to a real-time ambulance dispatch backend on AWS. Focused on reliable APIs and distributed systems.

TECHNICAL SKILLS

Languages	Java, Kotlin, Go, JavaScript, TypeScript, C++
Backend	Spring Boot, Spring Security, Spring Data JPA, Hibernate, Node.js, Express.js, NestJS, Hono
Database	PostgreSQL, MongoDB, Redis, Database Design, Indexing, Transactions, Query Optimization
Tools	Git, GitHub, Docker, Docker Compose, AWS, Maven, Gradle, Swagger, Flyway, Kafka, Stripe
Concepts	REST APIs, OOP, DSA, Microservices, System Design, Distributed Systems Fundamentals

EXPERIENCE

Backend-Focused Full-Stack Developer May 2026 – Present

W.A. Management & Consulting LLC (Remote, United States)

- Building a B2B multi-tenant property-management SaaS: TypeScript API and worker (Bun, Hono), PostgreSQL with schema-per-tenant isolation, Redis and Next.js apps in a Turborepo monorepo.
- Built its payments module on Stripe: checkout with verified webhooks, invoicing, proration, tax, retries, refunds and disputes, with a transactional outbox for reliable event delivery.
- On 1550+, a live SAT-prep platform, designed and built a new diagnostic creation flow, from SAT question bank to diagnostics, and tested features by hand.

Backend-Focused Full-Stack Developer October 2025 – Present

NeoSaver (Bangladesh)

- Built proximity-based driver discovery, real-time multi-round ride negotiation and OTP-verified rides.
- Built and run the AWS infrastructure (EC2, VPC, RDS, ElastiCache) with Terraform.

PROJECTS

NeoSaver – Real-Time Emergency Dispatch Platform (Ongoing)

- Modular Spring Boot backend: STOMP WebSockets for live bidding, trip-state sync and GPS tracking; Flyway-versioned PostgreSQL; JWT/RBAC, OTP verification and Redis caching, sessions and rate limits.
- Driver commissions, wallets and FIFO payment settlement; deployed on AWS with Docker and Caddy.

Stack: Java 21, Spring Boot, PostgreSQL, Redis, Hibernate, Flyway, WebSockets, Docker, AWS

NovaPay – Transaction Processing Backend GitHub

- Six Hono microservices for payroll and transfers behind an Nginx gateway, one PostgreSQL database each.
- Idempotency keys with payload-hash checks and a unique-index guard; double-entry ledger with a SHA-256 hash chain; BullMQ payroll with per-item checkpoints so crashed jobs resume.

Stack: TypeScript, Hono, PostgreSQL, Prisma, Redis, BullMQ, Nginx, Docker Compose, GitHub Actions

EDUCATION & LANGUAGES

Bachelor of Science in Computer Science & Engineering

North Western University

2023 – 2027 (Expected)

Bangla: Native | **English:** Professional Working Proficiency