

Sayan Mondal

Full-Stack Engineer (Backend Heavy)

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Professional Summary

Full-Stack Engineer (Backend Heavy) with 5+ years of experience building distributed, event-driven systems using Node.js, TypeScript, and Go. Led 15+ engineers and built production APIs handling 300+ RPS across 400+ cities. Strong in React, Kafka, Redis, MongoDB, PostgreSQL, Kubernetes, Docker, system design, and performance optimization.

Technical Skills

Languages: JavaScript, TypeScript, Go.

Backend: Node.js, Express.js, Gin, Chi, REST APIs, GraphQL, Microservices.

Frontend: React.js, Tailwind CSS, Redux, Redux-Saga.

Databases: PostgreSQL, MongoDB, Redis.

Messaging & Systems: Kafka, Redis Pub/Sub, Event-Driven Architecture, Caching, Rate Limiting, Concurrency.

Cloud & DevOps: Docker, Kubernetes, NGINX, CI/CD (GitHub Actions), DigitalOcean, VPS Deployments.

AI & LLM: OpenAI SDK, LangSmith, Prompt Engineering, RAG, GitHub Copilot.

Experience

DRIVADO – Chauffeur & Mobility Platform

Jul 2022 - Present

Senior Backend Engineer & Tech Lead

- Kolkata, India

- Led backend architecture and a **15+ engineer** cross-functional team for a global chauffeur and mobility platform operating across **400+ cities**.
- Built an **LLM-powered location normalization** service using OpenAI, Mapbox, and LangSmith, reducing manual location searches from **50% of bookings to 1–2%**.
- Improved **booking performance by 3×** and **user engagement by 2×** through backend optimization, **70% faster search, Redis caching**, and automated billing, invoicing, and payment flows.
- Migrated booking workflows from **Redis Pub/Sub to Kafka** to reliably process **300K+ daily events**, retain event history, and enable consumption across multiple services.
- Designed a **zone-based pricing engine** using polygon matching and layered rules for **markups, discounts, and night/event charges**, delivering pricing under **700ms**.
- Owned production infrastructure with **Docker, Kubernetes, NGINX, and GitHub Actions**, reducing infrastructure costs by 53% while supporting **500+ RPS**.
- Hardened **payment APIs** with Cloudflare WAF to support **PCI DSS compliance**.

RISING LEAFS – EdTech Platform (WEBEL-BCC&I)

Jan 2020 - Jul 2022

Founding Engineer

- Kolkata, India

- Co-founded and built a role-based learning platform using Node.js, Express, React, and MongoDB, onboarding 500+ users.
- Redesigned backend APIs and frontend workflows, increasing platform engagement by 30%.

Key Projects

B2B Chauffeur Service Platform | Node.js, React, MongoDB, Kafka, Docker, Kubernetes

- DRIVADO

- Built a scalable B2B platform for vehicle search, automated booking, hierarchical user management, and RBAC.
- Integrated zone-based pricing, driver assignment, wallets, automated invoicing, and real-time vehicle tracking.

Delivery Platform Backend & API Gateway | Go, TypeScript, Express.js, PostgreSQL, Redis, Docker, Kubernetes

github.com/sayanmondal31/delivery-platform

- Built a Go API Gateway with reverse-proxy routing, JWT authentication, CORS, and protected-route middleware.
- Implemented distributed rate limiting and authentication services using Redis/Lua, OTP, JWT rotation, and token blacklisting.

Education

B.Tech in Computer Science & Engineering

Techno International Batanagar

CGPA: 8.81

2018 - 2022

Achievements

Smart India Hackathon Finalist