

Rupankar Das

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SUMMARY

Backend Software Engineer with 1.5+ years of professional experience building and shipping scalable REST APIs, microservices, and cloud-deployed systems using Node.js, TypeScript, PostgreSQL, and AWS. Delivered applications serving over 1,000 users. Hands-on with Apache Kafka, Redis, WebSocket real-time systems, Docker, and CI/CD pipelines.

EXPERIENCE

Nexintel Synergy Pvt. Ltd.

Jul 2025 – Present

Junior Software Engineer

Kolkata, India

- Led end-to-end development of a **Library Management System serving 1,000+ active users**, including modules for book issuance and return, fine calculation, points-based rewards, and membership card generation.
- Architected and enforced **Role-Based Access Control (RBAC)** with JWT and OAuth2 across all API endpoints, eliminating unauthorized access incidents in production.
- Shipped REST APIs using **Node.js, Express.js, and Prisma ORM** backed by PostgreSQL on AWS RDS; hosted on AWS EC2 with PM2 process management, sustaining **99.9% uptime**.
- Integrated **AWS S3** for secure document and membership card storage, eliminating manual file handling across the library workflow.
- Established **GitHub Actions CI/CD pipelines**, reducing deployment time by 40% and supporting biweekly sprint releases.

Nexintel Synergy Pvt. Ltd.

Jan 2025 – Jun 2025

Software Engineering Intern

Kolkata, India

- Delivered **3 government web portals** using Next.js, Tailwind CSS, Express.js, and MongoDB, serving thousands of citizens across municipal departments with production-ready features.
- Developed **OAuth2-secured REST APIs** and optimized MongoDB aggregation queries for real-time data dashboards, improving average query response time by 35%.
- Created reusable component libraries in **Next.js and Tailwind CSS**, reducing UI development time by an estimated 30% across all three portals.

PROJECTS

DineSync | Node.js, TypeScript, PostgreSQL, Kafka, Redis, Docker, AWS, Socket.io

- Architected a **multi-tenant SaaS backend** across 9 independent microservices (API Gateway, Auth, Restaurant, Menu, Order, Kitchen Queue, Payment, Inventory, Notification), each with an isolated PostgreSQL database following the Database-per-Service pattern.
- Implemented **Apache Kafka** for high-throughput asynchronous event streaming between services (order.placed, order.approved, stock.depleted), decoupling order placement from kitchen and notification workflows.
- Engineered a real-time kitchen queue using **Redis sorted sets** with $O(\log N)$ performance and **Socket.io WebSockets** for live chef and floor manager dashboards with sub-second latency.
- Integrated **Razorpay and Stripe** with webhook signature verification, automated e-bill PDF generation stored on AWS S3, and full refund handling.
- Provisioned **AWS infrastructure** across EC2, RDS, ElastiCache, Amazon MSK, ALB, S3, CloudWatch, and Route 53 with wildcard subdomain routing for per-tenant isolation.
- Enforced subscription-based plan limits on tables, staff roles, and menu updates; authored **Swagger/OpenAPI** documentation and a Postman end-to-end test suite.

GeoTrackr | React, Flutter, Node.js, Express, MongoDB, JWT, Cloudinary

- Developed a **cross-platform GPS and QR-based attendance system** with a React web dashboard and Flutter mobile app, enabling real-time location-verified check-ins for organizations.
- Built a Node.js and Express backend with **JWT authentication**, real-time admin monitoring dashboards, and Cloudinary integration for profile image management.
- Introduced **geofencing logic** to validate employee proximity at check-in, preventing fraudulent attendance submissions.

EDUCATION

Regent Education and Research Foundation

Expected Dec 2026

Bachelor of Technology in Computer Science Engineering

Kolkata, India

- **Relevant Coursework:** Data Structures and Algorithms, Operating Systems, Database Management Systems, Computer Networks, Object-Oriented Programming, Computer Architecture

SKILLS

Languages: JavaScript (3+ yrs), TypeScript, Java, SQL, C++, Python

Backend: Node.js, Express.js, REST APIs, Microservices, Clean Architecture, Prisma ORM, JWT, OAuth2, WebSockets

Databases and Cache: PostgreSQL, MongoDB, MySQL, Redis, Supabase

Event Streaming: Apache Kafka, Message Queues, Event-Driven Architecture

Cloud and DevOps: AWS (EC2, S3, RDS, ALB, ElastiCache, MSK, CloudWatch, Route 53), Docker, Docker Compose, GitHub Actions, PM2

Tools and Practices: Git, Postman, Swagger, OpenAPI, Agile, Scrum, RBAC, System Design

ACHIEVEMENTS

Smart India Hackathon 2024 – College Runner-Up among 200+ competing teams

System Design Bootcamp – Completed 40+ hours of advanced system design training

MERN Stack Web Development – Certified by Udemy

Java and DSA Alpha 3.0 – Apna College