Suvam Adhikary

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LinkedIn: linkedin.com/in/suvam-adhikary | GitHub: github.com/suvamAdhikary | Portfolio: suvamadhikary.vercel.app

BACKEND ENGINEER | NODE.JS | TYPESCRIPT | KAFKA | MICROSERVICES

SUMMARY

Backend Engineer with 4.5+ years of experience building and hardening production APIs, microservices, and event-driven systems using Node.js, TypeScript, Kafka, MongoDB, and MSSQL. Experienced in performance optimization, API security, observability, and Kubernetes deployments across product and enterprise platforms.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, SQL, Python
Backend: Node.js, NestJS, Express.js, REST APIs, GraphQL, GraphQL Federation
Data & Messaging: MongoDB, MSSQL, MySQL, Redis, Apache Kafka, RabbitMQ
Cloud & DevOps: AWS EC2, Docker, Kubernetes, kubectl, CI/CD
Observability & Architecture: Winston, Kibana, Grafana, Microservices, Event-Driven Architecture, JWT

PROFESSIONAL EXPERIENCE

Software Engineer II | Neutrinos | Bengaluru, India (Hybrid) | Apr 2026 - Present

- Hardened 15+ Node.js/TypeScript API flows for an enterprise insurance platform through parameterized MSSQL queries, structured logging, standardized error handling, JWT middleware, and PII-safe logs.
- Delivered and refactored APIs across authentication, users, policies, motor, and claims; also built admin CMS and reporting APIs for internal operations.
- Deployed Kubernetes workloads from AWS EC2 using kubectl apply; monitored rollouts, pod health, and logs with k9s during releases and production troubleshooting.

Software Engineer II | upGrad Education | Hyderabad, India (Hybrid) | Jul 2024 - Feb 2026

- Redesigned assignment re-upload using MongoDB bulkWrite, reducing database round-trips by 90% for a platform serving 15K+ active learners.
- Optimized aggregation projections and stages, reducing per-document memory from 145KB to 5KB and improving query throughput by 5x.
- Managed Kafka producers and consumers across 21+ microservices processing 100K+ events/day, with retries and dead-letter handling for partial failures.
- Built a GraphQL Federation gateway integrating 20+ microservices and improved observability with Kibana and Grafana, reducing production incidents by 60%.

Lead Software Developer | Educational Initiatives | Bengaluru, India (Hybrid) | May 2023 - Jun 2024

- Delivered backend infrastructure for foundational literacy programs supporting 10K+ learners, including offline synchronization and conflict resolution using MongoDB and Redis.
- Built reusable TypeScript libraries and resilient REST APIs with retries, batching, and background processing, reducing development effort by 30%.

Software Development Engineer | Lead School | Remote | Jan 2022 - May 2023

- Developed Node.js REST APIs with MongoDB and Redis, improving response times by 60% for 10K+ weekly users.

PROJECTS

Workflow Engine: github.com/suvamAdhikary/workflow-engine-backend - NestJS APIs with JWT, API keys, Redis caching, webhooks, and workflow automation.
VisuCode: visucode.vercel.app - Interactive DSA learning product built with Next.js, TypeScript, and Nx.

EDUCATION

B.Tech, Mechanical Engineering | Heritage Institute of Technology, Kolkata | 2014 - 2018
Full-Stack Development Certification | Masai School | 2021