

SUPRATIK ROY

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TECH LEAD • FULL-STACK • CLOUD-NATIVE

SUMMARY

Tech Lead specializing in distributed systems and cloud-first product delivery. Designs and leads resilient microservices (Java/Spring, Node/Nest) and modern frontends (React/Angular), operating on AWS/GCP/Azure with CI/CD, observability, and reliability practices. Drives outcomes through clear roadmaps, cross-functional leadership, and mentoring.

LEADERSHIP HIGHLIGHTS

- Led squads of 6–10 engineers to ship complex platforms on tight timelines; instituted PR/RFC standards and engineering rituals.
- Designed 12+ microservices for a health-tech platform handling ~1M+ records/day with 99.99% availability and zero-downtime releases.
- Introduced SLIs/SLOs, dashboards, and runbooks to cut MTTR by ~30% and raise release cadence.
- Mentored 5+ engineers to mid/senior levels; contributed to hiring loops (screening, interviews, onboarding).

CORE SKILLS

- Languages: Java, TypeScript/JavaScript, SQL, Bash
- Backend: Spring Boot, NestJS, Node.js, Kafka
- Frontend: React, Angular (v18), React Native
- Cloud/Infra: AWS (EC2, S3, RDS, EKS/EMR, CloudWatch), Azure, GCP (BigQuery)
- Data/Streaming: PostgreSQL, MySQL, MongoDB, Elasticsearch, Apache Spark
- DevOps: Docker, Kubernetes, Jenkins, Terraform, CI/CD, Blue/Green & Canary
- Practices: System Design, Microservices, SRE/Observability, Agile/SDLC, Security & Compliance (HIPAA/PII)

EXPERIENCE

Tech Lead (Lead Full-Stack Engineer) — CBNITS India Pvt Ltd

Kolkata · Jan 2019 – Present

Responsibilities: I oversee technical design, development, and implementation of complex projects; mentor engineers and foster a collaborative culture; and partner with cross-functional stakeholders to ensure successful outcomes. I iterate rapidly during design and implementation, write extensible and maintainable code, and design and maintain web applications and supporting systems. I've instituted CI/CD and observability practices, run incident reviews, and drive quality through PR/RFC standards and coaching.

Software Developer — Qlikchain

Kolkata · 2017 – 2019

Responsibilities: Built and iterated on full-stack solutions across Node.js/Angular services and data integrations; wrote maintainable code in a collaborative team; and designed web applications and content integrations for multiple systems. Contributed to blockchain initiatives (Ethereum smart contracts, decentralized data storage) and improved reliability through testing and refactoring.

PROJECTS

Hospital Management System (HMS) — Senior Backend Engineer

Responsibilities: Architected and implemented microservices with Spring Boot; designed BPMN workflows for registration, billing, and clinical data; deployed on AWS with CI/CD (Jenkins + Terraform) enabling zero-downtime; integrated Spark on EMR for real-time analytics (~1M+ records/day); led a cross-functional team; optimized for 99.99% availability and HIPAA compliance.

Technologies: Java (Spring Boot), React, Camunda BPMN, AWS (EC2, S3, RDS, EMR, CloudWatch), Kubernetes, PostgreSQL, MongoDB.

Niyo Banking Application — Full-stack Developer

Responsibilities: Built and maintained web/mobile frontends (React.js, React Native), contributed NestJS backend, and delivered auth, account management, and transaction features.

Technologies: NestJS (Node.js), React.js, React Native, Kubernetes, Azure Cloud.

FDBKPro — Backend Developer

Responsibilities: Contributed Spring Boot microservices; wrote and optimized SQL; supported service operations on AWS/EKS and Lambda.

Technologies: Spring Boot microservices, EKS, AWS Lambda, MySQL, HTML/CSS/jQuery.

Insurance Portal — Technical Lead & Full-stack Developer

Responsibilities: Led design and implementation of a scalable insurance platform; built Spring Boot services integrated with AWS; delivered an Angular 18 frontend.

Technologies: Spring Boot microservices, Angular 18, AWS, MySQL.

PAN — Backend Developer

Responsibilities: Contributed Spring Boot microservices for data security posture; shipped tagging for data risk management and NetSec dashboard APIs; supported DLP-related work in BigQuery.

Technologies: Spring Boot microservices, Kafka, GCP, BigQuery.

Qlikcert, ADM, Leasechain — Full-stack Developer

Responsibilities: Built blockchain solutions for certificate storage, land registration, and asset management; implemented smart contracts and decentralized storage.

Technologies: Node.js, Angular 4/6, AWS, MongoDB, RethinkDB, PostgreSQL.

Telemetry Application — Full-stack Developer

Responsibilities: Created services to interact with IoT device data; developed a visual monitoring/reporting dashboard.

Technologies: Node.js, Angular 6, AWS, InfluxDB, Grafana.

Talentchain, Q8E Coin, Crypto-Lottery — Full-stack Developer

Responsibilities: Delivered blockchain-based applications using Node.js and Angular.

Technologies: Node.js, Angular 6/8, AWS, RethinkDB, PostgreSQL.

C-Star — Full-stack Developer

Responsibilities: Built a commodity ERP system using Java and Angular.

Technologies: Spring Boot, Angular 8, AWS, PostgreSQL.

AcreCX — Full-stack Developer

Responsibilities: Developed a decentralized commodities marketplace with Node.js and Angular.

Technologies: Node.js, Angular 8, AWS, PostgreSQL.

Truvito — Full-stack Developer

Responsibilities: Built a blockchain solution for audit and compliance certificates using Node.js and Angular.

Technologies: Node.js, Angular 8, AWS, RethinkDB.

EDUCATION

MASTER IN BUSINESS ADMINISTRATION (MBA) — Institute of Business Management, Jadavpur University · 2020–2023

BACHELOR OF TECHNOLOGY (Computer Science & Engineering) — Rajabazar Science College, Calcutta University · 2014–2017

CERTIFICATIONS

- **Agile Crash Course: Agile Project Management; Agile Delivery**
- **Node.js: Advanced Concepts**
- **The Complete JavaScript Course 2022: From Zero to Expert**
- **MERN eCommerce from Scratch**
- **The Complete Guide to Becoming a Software Architect**
- **OWASP Top 10: Web Security for Beginners**
- **The Complete Prompt Engineering for AI Bootcamp (2025)**

OPEN SOURCE

Automated Documentation Generator

CLI tool to scaffold developer docs from code/projects; improves onboarding and consistency.

Repo: <https://github.com/suroy92/automated-documentation-generator>

Password Manager

Lightweight credential manager with encryption and a simple UX; emphasizes security best practices.

Repo: <https://github.com/suroy92/password-manager>

Personal Finance Analyzer

Parse statements, auto-categorize, and visualize spend to surface actionable insights.

Repo: <https://github.com/suroy92/personal-finance-analyzer>