

# 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/suoy92/automated-documentation-generator>

### **Password Manager**

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

Repo: <https://github.com/suoy92/password-manager>

### **Personal Finance Analyzer**

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

Repo: <https://github.com/suoy92/personal-finance-analyzer>