

# Ritik Chakrawarty

rchakrawarty55@gmail.com | +91 8269563339

[LinkedIn](#) | [LeetCode](#) | [GitHub](#)

## PROFILE SUMMARY

Senior Software Developer with 3+ years of experience building large-scale distributed systems and fintech solutions. At NPCI, architected Central Bank Digital Currency infrastructure processing 500K+ daily transactions. Currently at Capital Now NBFC, developing automated loan disbursement systems with complex algorithms and multi-vendor API integrations. Expertise in microservices architecture, system scalability, and financial technology solutions.

## EXPERIENCE

### Capital Now (by Finxer Technologies Pvt. Ltd.)

Dec 2024 – Present

Senior Software Developer

Hyderabad, India

#### Capital Now App – Backend System

- Automated CIBIL reporting system, reducing logic duplication by 60% across 5+ vendors, processing reports monthly.
- Built PDF parser (Node.js + Tesseract) achieving 95% accuracy in PAN/UAN extraction from documents.
- Integrated UPI AutoPay, boosting repayment success by 40% and processing monthly transactions.
- Developed dynamic bank-vendor switch mechanism, eliminating manual fallbacks and reducing downtime by 80%.
- Refactored eNACH mandates, reducing DB load from 80% to 30% and increasing throughput 2.5x for daily transactions.
- Resolved 25+ legacy bugs and mentored 3 junior developers, improving release stability by 35%.
- Tech Stack:** Node.js, TypeScript, Golang, Express.js, Kafka, Redis, RabbitMQ, AWS, Git, MySQL, Sequelize.

### National Payments Corporation of India

Jul 2022 – Nov 2024

Senior Application Developer - Distributed Systems Team

Hyderabad, India

#### Retail Central Bank Digital Currency (R-CBDC) - Large-Scale Distributed System

- Architected distributed transaction reconciliation system recovering 99% of missed transactions across microservices, processing 80,000+ daily transactions.
- Designed and implemented secure onboarding microservice for 15+ organizations with multi-layer validation, reducing latency by 60%.
- Built Kafka-based event streaming architecture with heartbeat monitoring, scaling data throughput 3x to process 2M+ messages daily across distributed nodes.
- Developed automated reporting microservice with Redis caching layer, eliminating 70% manual effort and achieving 99.9% accuracy for 100+ daily reports.
- Optimized distributed currency issuance/redemption pipeline, implementing horizontal scaling to handle concurrent transactions daily.
- Refactored distributed data architecture with Redis/KeyDB caching strategy, achieving 83% DB efficiency improvement and 50% faster query response.
- Led technical mentoring for 5 engineers and cross-service integration with 3 distributed teams, improving system reliability by 25%.
- Tech Stack:** Node.js, Hyperledger Fabric, TypeScript, Golang, Kafka, Redis, KeyDB, RabbitMQ, Docker, Kubernetes, Git, MariaDB, CouchDB, Microservices.

## EDUCATION

### B.Tech in Computer Science

Jul 2018 – Jun 2022

Shri Ram Institute of Technology

Madhya Pradesh, India

## SKILLS

<b>Programming Languages</b>	TypeScript   Java   SQL   Bash   JavaScript
<b>Distributed Systems</b>	Microservices   Kafka   Redis   KeyDB   Docker   Kubernetes   System Design
<b>Backend &amp; Cloud</b>	Node.js   Hyperledger Fabric   MariaDB   Express.js   REST API   AWS   Git

## PERSONAL PROJECTS

- Book It!** – Movie ticketing app on Hyperledger Fabric with secure seat tokenization, supporting multiple users.
- Track My Prada** – Blockchain product traceability tool preventing counterfeits, tracking authentication at every layer.

## ACHIEVEMENTS

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- **Well Done Award 2024:** Received twice by NPCI for R-CBDC system reliability and design excellence.
- **Playground Challenge Winner 2024:** First place in NPCI's Advanced Open Source challenge among 200+ participants.
- Solved 400+ DSA problems focusing on distributed algorithms, system design, and scalability patterns.

## CERTIFICATIONS

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- **Advanced Blockchain (IIIT Hyderabad)**
- **Certified Hyperledger Fabric Developer (KBA)**