

# Rohit Kumar Roy

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## EDUCATION

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### Techno Main Salt Lake

*Bachelor of Technology in Computer Science and Engineering (IoT)*

Kolkata, WB

*Aug. 2023 – May 2027*

## TECHNICAL SKILLS

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**Languages:** Go, TypeScript, Python

**Backend & Systems:** gRPC, Protobuf, REST APIs, Microservices, Concurrency (goroutines, channels), System Design

**Databases & Storage:** PostgreSQL, Redis, MySQL

**DevOps & Infrastructure:** Docker, CI/CD (GitHub Actions)

**Observability & Testing:** Prometheus, Unit & Integration Testing, Benchmarking

**Tools & Systems:** Linux, Git

## PROJECTS

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**Zaraba** 🐙 [GitHub](#) 🌐 [Live](#) | Go, gRPC, Protobuf, Templ

Jan 2026 – Mar 2026

*Crypto exchange application with real-time trading, order matching, and wallet systems*

- Built a real-time trading system that matches buy and sell orders and maintains an in-memory orderbook.
- Designed a gRPC-based architecture separating API, trading logic, and services for markets, trades, and wallets.
- Used fixed-point arithmetic for precise financial calculations, eliminating floating-point inaccuracies in trade execution.

**CipherBin** 🐙 [GitHub](#) 🌐 [Live](#) | Go, PostgreSQL, Templ, Chi

Sept 2025

*Ephemeral code-sharing service where snippets auto-expire after a set time*

- Developed a full-stack Go application using the Templ engine for type-safe, server-side rendered HTML and a modular PostgreSQL backend engineered with a Clean Architecture pattern.
- Implemented session-based authentication, input sanitization, and secure database operations using prepared statements.

**Sentinel-Proxy** 🐙 [GitHub](#) | Go, gRPC (streaming), Redis

Mar 2026

*Reverse proxy that monitors outgoing traffic to detect suspicious data transfer in real time*

- Built a streaming pipeline that inspects traffic chunks and tracks behavior patterns using Redis to identify potential data exfiltration.
- Implemented adaptive threshold-based detection to flag abnormal data transfer while minimizing false positives.

## ACHIEVEMENTS

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**Finalist — DoubleSlash 4.0, Jadavpur University**

Mar 2026

- Finalist in the Cybersecurity track; built Sentinel-Proxy, a real-time traffic monitoring system.

**Competitive Programming**

- LeetCode: 200+ problems solved with a 60-day consistent solving streak.