Anindya Koley

Computer Science & Engineering Student

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SUMMARY

Pre-final year B.Tech student with hands-on experience in backend development and DevOps. Skilled in Java, Go, and TypeScript, with practical exposure to Docker, AWS, RabbitMQ, and Redis. Familiar with API development, scalable application design, and deployment workflows. Strong interest in building reliable backend systems and learning modern software development practices.

PROJECTS

Disaster Preparedness Response Platform | GitHub August 2025 - October 2025

Express.js, Next.js, PostgreSQL, Redis, RabbitMQ, Docker, AWS

- Built a disaster preparedness platform with multi-level RBAC and event management workflows for high-frequency submission handling.
- Designed asynchronous analytics processing using message queues and background workers to decouple statistical aggregation from the request lifecycle and reduce request-path latency during burst traffic.
- Implemented Redis-based precomputed statistics caching with TTL-driven invalidation to avoid repeated database aggregation queries and support near real-time analytics retrieval.
- Containerized and deployed the platform on AWS EC2 using Docker.

Concurrent Email Campaign Engine | GitHub November 2025 - January 2026

Go, OpenTelemetry, Docker, Concurrency, Worker Pools

- Built a concurrent bulk email processing engine using buffered Go channels and bounded worker pools to control concurrency and stabilize throughput during large email campaigns.
- Implemented token-bucket rate limiting, delayed retry workflows, and dead-letter handling to manage transient delivery failures and prevent retry storms under provider throttling.
- Designed CSV-based recipient ingestion with asynchronous background workers and channel-driven task distribution for decoupled email processing and backpressure-aware execution.
- Integrated OpenTelemetry tracing, metrics, and structured logging for runtime observability, worker monitoring, and failure tracking across the processing pipeline.

TECHNICAL SKILLS

Languages: Go, Java, TypeScript, Python, C
Backend : Express.js, Next.js, Gin, Spring Boot
Databases & Messaging: PostgreSQL, MongoDB, Redis, RabbitMQ
DevOps & Cloud: Docker, GitHub Actions, AWS
Core CS Concepts: OOP, Operating Systems, DBMS, Computer Networks, Concurrency, REST APIs
Tools: Git, GitHub, Linux, OpenTelemetry

EXPERIENCE

Tech Team Coordinator – Student Chapter CSE March 2024 - Present

- Managed technical operations and backend support for chapter events and registration workflows.
- Built and maintained a backend platform for annual chapter events to handle registrations and user access.

EDUCATION

Academy of Technology (MAKAUT, WB) West Bengal, India
B.Tech in Computer Science & Engineering | GPA: 8.44(up to 6th semester) 2023 - Present

Singur Mahamaya High School West Bengal, India
Higher Secondary (Class XII) | 85.6% 2022

Singur Mahamaya High School West Bengal, India
Secondary (Class X) | 93.5% 2020

ADDITIONAL INFORMATION

Recognition: Top 8 Finalist - FrostHacks S01
Languages: English, Bengali, Hindi