

# Subrata Chanda Shanto

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## PROFESSIONAL SUMMARY

Final-year Computer Science student with hands-on experience in backend development, specializing in Golang. Skilled in designing and implementing RESTful APIs, gRPC services, microservices, and event-driven architectures. Experienced with PostgreSQL, Redis, Elasticsearch, and message queue systems. Previous exposure to Android development (Kotlin + Jetpack Compose). Strong focus on building scalable, maintainable, and high-performance backend systems that solve real-world problems.

### Core Competencies

- Backend Development: Go, REST, gRPC, Microservices
- Databases & Caching: PostgreSQL, Redis, Elasticsearch
- Architecture: Event-driven systems, Message Queues
- Key Strengths: Scalability, maintainability, concurrency, system design

## TECH STACK

### Language

Golang

### Database

PostgreSQL

Elasticsearch

Redis

### DevOps

Docker

Git

## EDUCATION

### Secondary School Certificate

Sylhet Govt Pilot High School, Sylhet

### Diploma in Engineering

Sylhet Polytechnic Institute, Sylhet

## PROJECTS

### Book Library API

Go, PostgreSQL, REST, Elasticsearch, Docker

Built a RESTful API for managing books with JWT authentication, pagination, and search via Elasticsearch. Dockerized for local deployment.

### Payment API Backend

Go, gRPC, PostgreSQL, Kafka, Docker

Designed a gRPC-based payment service with atomic transactions and Kafka for async processing.

### Real-Time Chat Manager

Go, WebSocket, Redis

Created a WebSocket server for real-time chat, handling multi-client messaging, graceful shutdowns, and Redis-backed state sync.