

# Saikat Kumar Gain

Backend Developer | Java & Spring Boot | Reactive Programming

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## Summary

Backend Developer experienced in Java, Spring Boot, and Reactive Programming (WebFlux/Project Reactor). Skilled in microservices, RESTful APIs, Kafka, Neo4j, Docker, and CI/CD in an Agile environment.

## Experience

### Junior Backend Engineer — Dhrubok Infotech Service Ltd

Jan 2026 – Present

- Build non-blocking RESTful APIs with **Spring WebFlux** and **Project Reactor**, improving throughput under high concurrent load.
- Model and query complex data with **Neo4j** graph DB; implement event-driven communication via **Apache Kafka**.
- Integrated **Firebase Cloud Messaging (FCM)** for push notifications; develop within a **multi-module Maven** architecture.
- Follow rigorous **Git/GitHub** workflow — branching, pull requests, and code reviews — in an Agile team.

### Backend Developer Intern — Dhrubok Infotech Service Ltd

Sep 2025 – Dec 2025

- Built production-grade Java backend features with reactive paradigms; promoted to Junior Engineer within 3.5 months.

## Technical Skills

- **Languages:** Java, C#, C++, C
- **Backend:** Spring Boot, Spring WebFlux (Reactive), Spring Security, Spring Data JPA/Hibernate, Microservices Architecture, RESTful Services
- **Databases:** Neo4j (Graph DB), MySQL, PostgreSQL
- **Messaging & Eventing:** Apache Kafka, Redis Pub/Sub, Firebase Cloud Messaging (FCM)
- **DevOps & Tools:** Git, GitHub, Docker, Maven (Multi-Module), CI/CD, Swagger/OpenAPI, Postman, Tomcat, PgAdmin
- **Testing:** Unit Testing, Integration Testing, JUnit
- **Concepts:** Design Patterns, ACID / SOLID Principles, DSA

## Publications

### Conference Papers

- Bangla Semantic Analysis Using a Transformer-Based BanglaBERT Model
- Explainable Stacking Machine Learning Ensemble Model for Liver Disease Prediction

### Journal Articles

- Stroke Prediction Using Ensemble Machine and Deep Learning Models

Q1 Journal

## Projects

- **Quickart — E-Commerce Microservices Backend** 2026 Java 21, Spring Boot, Spring Cloud, Apache Kafka, Neo4j, JWT, OpenFeign | 🌐 [github.com/SKgain/quickart-backend](https://github.com/SKgain/quickart-backend)  
Production-grade microservices backend with 9 independently deployable services. JWT auth enforced at the **API Gateway**; downstream services communicate via **OpenFeign** (sync) and **Kafka** (async). Centralized config via **Spring Cloud Config Server** (Git-backed); service discovery via **Eureka**; automated email notifications via **JavaMailSender**.
- **TaskMaster — Project Management Backend** 2025 Java 21, Spring Boot 3, PostgreSQL, WebSocket, Docker | 🌐 [github.com/SKgain/taskmaster-backend](https://github.com/SKgain/taskmaster-backend)  
JWT auth, role-based access (ADMIN/MANAGER/MEMBER), real-time WebSocket chat, Google Gemini AI task generation, analytics dashboards, SMTP email, Swagger docs, Docker Compose.
- **Bangla Semantic Similarity — BanglaBERT API** 2025 Java, Spring Boot, Python, BanglaBERT, Docker | 🌐 [github.com/SKgain/semantic-similarity-backend](https://github.com/SKgain/semantic-similarity-backend)  
Thesis project. Spring Boot orchestrates requests and post-processing; Python service runs fine-tuned BanglaBERT to classify Bangla sentence pairs as High, Moderate, or Low similarity.

## Education

### BSc in Computer Science and Engineering

IUBAT, Dhaka

Dec 2025

CGPA: 3.86 / 4.00

## Soft Skills

Problem Solving • Team Collaboration • Agile Development • Attention to Detail

## Languages

Bengali (Native) • English (Professional Working Proficiency)