

Sourav Chowhan

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PROFESSIONAL SUMMARY

Core Backend Software Engineer with over 3 years of hands-on experience building and scaling highly transactional Java and Spring Boot systems. Driven by a genuine passion for engineering problem-solving, I take complete end-to-end feature ownership — from client discovery, R&D, and database schema design to writing clean CRUD APIs and conducting rigorous dev-side testing. I thrive on solving complex edge cases, identifying bottleneck root causes, and rigorously validating that critical issues are completely resolved before shipping to production.

EXPERIENCE

GreenCard Finance

London, UK (Remote)

Software Engineer (Part-Time)

May 2026 – Present

- Building core exchange services and an internal tool to calculate and monitor currency conversion rates; MVP complete.
- Building high-performance, real-time background workers and endpoints for currency rate ingestion.

TechnoNext Software Ltd

Dhaka, Bangladesh

Software Engineer – Backend

October 2022 – November 2025

- News Portals (DhakaMail & RTV):** Core engineer with end-to-end ownership across primary CMS modules — led client requirement gathering, R&D, database schema design, and core CRUD API development. Built Google indexing/sitemap structures, automated social graph posting (FB, Instagram, Twitter), real-time Google Analytics dashboards with Redis caching, AWS S3 storage integrations, and MongoDB audit history logging. Conducted rigorous dev-side testing for zero-downtime releases.
- Query Optimization:** Accelerated long-running production queries by designing custom indexes, utilizing custom projections, and writing a hashmap lookup handler to fetch large datasets in a single execution to eliminate loop latency.
- Mobile Backend & NFC Card Platform:** Architected a Clean Architecture mobile backend from scratch with full module ownership. Developed foundational CRUD workflows, security interceptors, and programmed an admin tool for physical NFC card chips with smart web fallbacks. Managed dev-end testing and production stability for 2 years.
- Flight Ops (Aviation):** Implemented dense business rules, flight roster validation systems, and simulation modules. Conducted peer code reviews, designed Jasper Reports compliance layouts, and performed dev testing for flight safety hazard reporting.
- CartUp (E-Commerce):** Designed data sync routines using Spring Batch and gRPC under SOLID principles. Published catalog events to Apache Kafka, taking data pipelines from initial schema design through dev testing to high-throughput production execution.

TECHNICAL SKILLS

- Languages & Core Frameworks:** Java, Spring Boot, Spring Batch, Hibernate/JPA, Python, Core Java, OOP, SOLID patterns.
- Databases & Caching:** PostgreSQL, MongoDB, Redis Caching, Apache Kafka, Custom Projections, Indexing, Transaction Safety.
- APIs & Tools:** RESTful APIs, gRPC, WebSockets, Jasper Reports, Social Media Graph APIs, Spring Security Interceptors, AWS (S3).
- DevOps & Testing:** Dev-side Production Testing, Docker, Git, CI/CD pipelines, Code Reviews, Bug Fixing, DB Schema Design.

EDUCATION

Green University of Bangladesh

Dhaka, Bangladesh

B.Sc. in Computer Science and Engineering; CGPA: 3.64/4.00

January 2018 – 2022

ACHIEVEMENTS & TRAITS

- Competitive Programming:** 2x Vice Chancellor's Academic Excellence Awards; Runner-Up, GUB Intra-University Programming Contest (2019); Honorable Mention, ACM-ICPC Asia Dhaka Regional Preliminary (2019).
- Work Ethic:** Highly analytical problem-solver, swift self-learner, and focused on maintaining long-term system stability through rigorous dev testing and direct collaboration.