

Dabobroto Sarkar Software Engineer

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🌐 [Dabobroto Sarkar](#)

🔗 [My AI Portfolio](#)

Professional Summary

Software Engineer with 4 years building production backend systems at telecom and enterprise scale. Experienced in Java/Spring Boot microservices, Kafka-based event processing, and high-volume data pipelines serving millions of subscribers at Robi Axiata. Currently designing ride-sharing backend services in Go at Foodi (US-Bangla Group).

Work Experience

08.2025 – Present
Dhaka

Software Engineer

[Foodi \(US-Bangla Group\)](#) 🔗

- Leading backend design for **Shuttle**, a scheduled ride-sharing service built in **Go**, owning data modeling and schema design from the ground up.
- Architected and led **Quest**, a driver incentive engine on **Java/Spring Boot**, where admins configure time-bound targets (e.g. 10 hours online and 5 completed trips within a set window) and the system evaluates driver eligibility to issue rewards over 24–48 hour settlement periods.
- Built event-driven trip processing consuming pickup/dropoff coordinates from **Kafka**, validating each trip against admin-defined geographic zones via a Geo Module API before counting it toward a driver's target.
- Defined service boundaries, REST API contracts, and Kafka partitioning strategy for a distributed team spanning internationally; mentored a mid-level engineer for ~1 year across onboarding, design review, and code review.

06.2025 – 08.2025
Dhaka, Bangladesh

AI Trainer (Contract, Part-time)

[Outlier.ai \(Scale AI\)](#) 🔗

- Evaluated LLM outputs across coding, logic, and reasoning tasks, authoring prompts designed to probe model failure modes.
- Reviewed AI-generated code for correctness, performance, and adherence to engineering standards, providing structured preference feedback used in RLHF training pipelines.

09.2022 – 06.2025
Dhaka, Bangladesh

Software Engineer

[Reddot Digital Limited \(Robi Axiata Group\)](#) 🔗

Enterprise CRM (DCRM) :

- Maintained and enhanced the core CRM serving Robi's nationwide subscriber base, resolving 50+ critical production defects and delivering 20+ features over 3 years.
- Automated complex operational workflows with Spring Boot and JSP, reducing task completion time from **2–3 hours to under 30 seconds**.
- Built a subscriber reconciliation export pipeline processing **150M+ records within 2 hours**, using an Oracle stored procedure to materialize a snapshot table, ID-range partitioning into ~6 chunks, and streaming ResultSet writes to keep memory flat regardless of result size.

Operational Automation :

- Built a Spring Boot microservice with an Angular frontend enabling non-technical operations teams to execute complex database actions independently, reducing manual engineering support requests by **~80%**.
- Maintained a multithreaded Spring Scheduler pipeline processing **10,000+ bulk files daily at a 95% success rate**, using concurrent processing, REST integrations, and automated retry handling.

High-Volume Data & Messaging :

- Built a nightly synchronization job loading **50M+ customer records** from CSV into PostgreSQL in under 10 minutes for **Adareach (Axiata Digital Advertising)**, Robi's SMS marketing platform, using PostgreSQL's COPY bulk-load path instead of row-wise inserts.
- Delivered **1M+ scheduled SMS per month at 99.8% delivery success** through a Spring Scheduler system with automated retries and fault handling.

Platform & Observability :

- Deployed **SigNoz** APM across **50+ microservices** on Kubernetes with ClickHouse storage, replacing a Grafana-based stack and giving teams distributed tracing and centralized latency/error visibility for faster incident triage.
- Extended the open-source **Papermerge** platform to handle **5,000+ daily document operations** using Python, FastAPI, Tesseract OCR, and Celery.

Skills

Programming Languages:	Java, Go, Python, SQL, TypeScript
Frameworks & Libraries:	Spring Boot, Spring Data JPA, Spring Scheduler, FastAPI, Angular, JSP
Messaging & Async:	Apache Kafka, Celery, Java Concurrency (thread pools, ExecutorService)
Databases:	Oracle, PostgreSQL, ClickHouse
Testing & Observability:	JUnit 5, Mockito, Selenium, SigNoz, APM
Tools & Technologies:	Docker, Kubernetes, Git, GitHub Actions, Google Cloud Run, Maven, Linux, Google Cloud Build
Practices:	Microservices Architecture, RESTful API Design, Event-Driven Architecture, RBAC, ACID Transactions, Agile/Scrum

Personal Projects

10.2025 – Present	Sticky Notes - Linux desktop app, published on Snap Store - Built and actively maintain a PyQt6 desktop notes application distributed via Snapcraft, running on 2,100+ active devices across 125+ countries and growing at ~20 installs/day. - Designed a modular architecture separating window rendering, tray lifecycle management, theming, and XDG autostart handling; implemented rich-text editing, nested list handling, 5-second autosave, and full session restoration. - Automated Snap builds and releases through GitHub Actions, shipping continuous updates and issue fixes to a live user base. Tools : <i>Python, PyQt6, Snapcraft, GitHub Actions</i>
01.2026 – Present	AI Portfolio – Gemini-Powered Full-Stack Application - Built a Gemini-powered assistant (DS-7) that answers questions about my work history and adapts its response style to the visitor, served through a custom API layer with servlet filters, request logging, and rate limiting to control abuse and API cost. - Architected an Angular SPA compiled into a single static build served by a Spring Boot (Java 17) backend, containerized with multi-stage Docker builds and deployed serverlessly on Google Cloud Run. - Configured Google Cloud Build CI/CD for automatic deployment from GitHub, owning the full pipeline from commit to production. Tools: Spring Boot, Angular, Gemini API, Docker, Google Cloud Run, Google Cloud Build

Education

02.2016 – 06.2022 Chittagong, Bangladesh	Chittagong University of Engineering & Technology <i>B.Sc in Computer Science & Engineering</i>
2013 – 2015 Dhaka, Bangladesh	Notre Dame College <i>Higher Secondary Certificate</i>
2004 – 2013 Dhaka, Bangladesh	Dhaka Collegiate School <i>Secondary School Certificate</i>