

Sayan Mondal

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Technical Skills

Languages: Java, Python, C++, C, SQL
Frameworks: Spring Boot, Spring Security, React, Express.js, Node.js
Databases: MySQL, MongoDB
Tools & Platforms: Docker, IntelliJ IDEA, VS Code, Android Studio, PyCharm, Cloudinary, Canva, Git
Cloud / DevOps: Cloud Computing, Docker, REST API Design
CS Fundamentals: Data Structures & Algorithms, OOP, DBMS, Computer Networks, Compiler Design, Software Engineering

Projects

- Self-Ordering System** | *Java, Spring Boot, MongoDB, Cloudinary, React, Razorpay* *Jan 2025 – Apr 2025*
- Architected and deployed a **QR-code-based contactless ordering platform** for restaurants, eliminating the need for physical menus and reducing order placement time by an estimated **40%**.
 - Engineered **real-time order status tracking** using Spring Boot WebSocket integration, enabling customers to monitor order progress from placement to delivery without manual refresh.
 - Integrated **Razorpay payment gateway** for secure online transactions and implemented automated email billing using JavaMailSender, reducing manual billing effort to zero.
 - Built a full-featured **Admin Panel** with CRUD capabilities for menu management, order lifecycle control, and operational analytics dashboard.
 - Utilized **Cloudinary CDN** for optimized image storage and retrieval of menu items, improving page load performance by serving assets through a distributed edge network.
- URL Shortener with Analytics Dashboard** | *Java, Spring Boot, Spring Security, JWT, MySQL* *Feb 2025 – Mar 2025*
- Designed and built a **production-grade URL shortening REST API** using Spring Boot, supporting millions of potential redirects with low-latency short URL resolution.
 - Implemented **JWT-based stateless authentication** and role-based access control (RBAC), securing user-specific URL dashboards and preventing unauthorized data access.
 - Developed **click tracking and analytics APIs** that log every redirect event, enabling users to monitor link performance with total click counts and access history.
 - Engineered **short URL redirect logic** using a collision-resistant hashing strategy with MySQL persistence, ensuring unique slug generation at scale.

Education

Jadavpur University *Kolkata, West Bengal*
Bachelor of Engineering – Information Technology — CGPA: 7.3 / 10 *2022 – 2026*

Bankura Zilla School *Bankura, West Bengal*
Higher Secondary (12th Grade) – Science — Percentage: 92.6% *2020 – 2022*

Achievements & Coding Profiles

Solved **250+** **algorithmic problems** on [LeetCode](#), demonstrating consistent proficiency in dynamic programming, graph algorithms, and system design patterns.

Solved **250+** **problems** on [GeeksForGeeks](#), covering core computer science concepts including trees, heaps, backtracking, and greedy algorithms.

Maintained a competitive programming practice routine across multiple platforms, totaling **500+ problems solved**.

Extracurricular & Interests

Intermediate Outdoor Photographer (since 2024) – skilled in landscape and street photography; demonstrates attention to detail, creative problem-solving, and patience under varied conditions.