

Saswata Mondal

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Summary

Computer Science undergraduate (B.Tech, 2022–2026) with strong backend development skills in Java, Spring Boot, and SQL. Experienced in building scalable, secure applications and integrating APIs and third-party services. Passionate about clean code.

Education

Institute of Engineering & Management, Kolkata , B.Tech in Computer Science	2022-2026
• SGPA: 9.11 (Weighted till 3 rd Year)	
The Assembly of God Church School, Haldia	2009-2022
• ICSE (Class 10), 2020: 92.4%	
• ISC (Class 12), 2022: 94.75%	

Projects

[SyntaxHut](#) –Competitive Programming Solutions Platform

Java, Spring Boot, PostgreSQL, Node.js, Python, GitHub Actions, Cloudflare, Vercel

- Designed and developed a [backend](#) platform managing 1500+ coding problems and multi-language solutions (Java, C++, Python, C).
- Built automated pipelines using GitHub Actions, Node.js, and Python for ingestion, enrichment, and synchronization across repositories.
- Integrated AI-based content enrichment (Gemini API) to auto-generate explanations, metadata, and real-world problem contexts.
- Designed REST APIs for scalable problem listing, search, and retrieval, with planned migration to Spring Boot + MySQL.
- Deployed on Vercel with Cloudflare CDN, ensuring global performance, SEO optimization, and maintainability with CI/CD and secret management.

[Library Management System](#)

Spring Boot, Spring Security (JWT), PostgreSQL, JPA/Hibernate, JUnit, Mockito

- Developed a secure backend system with role-based access control (Librarian/User) using stateless JWT authentication.
- Implemented RESTful APIs for user registration, login, book management (add, update, delete, search), and member workflows.
- Designed borrowing/return processes with overdue tracking, fine calculation, recommendations, and audit trails.
- Ensured robust error handling, input validation, and comprehensive testing (unit/integration with JUnit, Mockito, Postman).
- Optimized database interactions with Spring Data JPA/Hibernate for efficiency and maintainability.

Technologies

Programming Languages: Python, Core Java, Spring Boot

Databases: MySQL

Web: React.js, HTML, CSS, JavaScript

Tools & Platforms: Git, GitHub, REST APIs

Awards & Achievements

- ISC School Topper & House Captain 2021–2022
- Top 5% performer & Silver Certification in NPTEL
- Winner & Organizer – School & College Table Tennis Tournaments

Certifications

- NPTEL- Programming in Java,
- NPTEL- Database Management Systems,
- NPTEL- Introduction to Programming in C,
- NPTEL- Problem Solving in C
- IBM Java Developer Professional Certificate- Coursera
- React Basics– Coursera