

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, developer productivity, and cost-effective software design.

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%	

Work Experience

Data Science Intern – Sabudh Foundation (in collaboration with STPI)	July-Present 2025
<ul style="list-style-type: none">• Participating in a 6-month AI/ML training program focused on real-world, socially impactful projects.• Learning data preprocessing, EDA, machine learning, and model deployment.• Will contribute to a live project applying ML to domain-specific challenges.	

Projects

AI Career Companion (Personal Project)

- Designed and developed an AI-driven career assistant with a Spring Boot backend and React.js frontend.
- Implemented RESTful APIs in Spring Boot to handle user data, document parsing, and interaction with Google Gemini API for LLM-powered responses.
- Automated tailored resume and cover letter generation, interview prep cheat sheets, and mock interview feedback using backend services.
- Built secure authentication, session management, and error handling with Spring Security and exception handling best practices.

Ecommerce Website Development (Personal Project)

- Developed a full-stack e-commerce website with a robust Spring Boot backend and React.js frontend.
- Designed REST APIs for product catalog, shopping cart, wishlist, and order management using Spring MVC and JPA/Hibernate.
- Integrated Razorpay payment gateway with secure transaction flows and backend order processing.
- Implemented JWT-based user authentication and role-based authorization.
- Optimized database interactions with Hibernate, query tuning, and efficient entity relationships.

Library Management System (Personal Project)

- Built a Library Management System using Spring Boot and MySQL.
- Developed REST APIs for managing books, users, and borrowing records.
- Secured endpoints with Spring Security and JWT authentication.
- Used Spring Data JPA for efficient database operations and custom queries.
- Wrote unit tests with JUnit and Mockito.

Technologies

Programming Languages: Python, Core Java, Spring Boot, Spring MVC, Spring Security, JPA/Hibernate, C

Databases: PostgreSQL, MySQL, MongoDB, SQL (extensive experience with query optimization and JDBC)

DevOps/System Admin: Git, Linux (Shell Scripting, Process Management, System Monitoring),

Web: React.js, HTML, CSS, JavaScript, RESTful APIs

Other: Problem-Solving, Communication, Collaboration, Agile, Clean Code

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, Database Management Systems, Introduction to Programming in C, Python for Data Science, Problem Solving in C
- IBM Java Developer Professional Certificate- Coursera
- React Basics- Coursera