

# Saswata Mondal

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## Summary

Highly motivated Computer Science undergraduate (graduating 2026) specializing in Java backend development. Proficient in designing, developing, and deploying robust web applications using Java (Spring Boot), SQL, and RESTful APIs. Demonstrated expertise in building scalable backend systems, optimizing database performance, and integrating secure services. Strong problem-solving and teamwork skills with a passion for learning new technologies in a challenging development environment.

## Education

<b>Institute of Engineering &amp; Management, Kolkata</b> , B.Tech in Computer Science	2022-2026
• SGPA: 9.17	
<b>The Assembly of God Church School, Haldia</b>	2007-2022
• ICSE (Class 10), 2020: 92.4%	
• ISC (Class 12), 2022: 94.75%	

## 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, Docker, 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
- Organized a college-level Table Tennis Tournament

## 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