Jugantar Roy

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Summary

A motivated and enthusiastic Computer Science graduate with a strong foundation in **Java development**, **Object-Oriented Programming**, and building full-stack applications using the **Spring Framework**. Eager to contribute to a dynamic engineering team, with practical experience in developing, testing, and maintaining scalable applications from academic and personal projects. Possesses a foundational understanding of AI concepts and hands-on experience with AI-powered code generation tools like **GitHub Copilot**.

Education

University of Engineering and Management | Kolkata, India
Bachelor of Technology – Computer Science and Technology | 2021 - 2025
- **CGPA:** 8.62

Relevant Coursework: Data Structures and Algorithms, OOPs using Java, Database Management Systems, Artificial Intelligence, Machine Learning, Computer Networks, Software Development

SKILLS SUMMARY

- Languages: Java, SQL
- Frameworks: Spring, Spring Boot, React.js, Hibernate
- Tools: Git/Github, MySQL, VSCode, Maven, Tomcat, Postman
- Platforms: Windows, Linux
- Soft Skills: Communication, Leadership, Problem Solving

Work Experience

Software Engineer Trainee | Cognizant   Kolkata, India | July 2025 – Present

- Assisted in maintaining RESTful backend services using Spring Boot for client project.
- Contributed to all Agile/Scrum ceremonies, focusing on sprint velocity and SDLC goals.
- Conducted Root Cause Analysis (RCA) and deployed hotfixes to resolve defects.
- Leveraged GitHub Copilot to accelerate development and enhance unit test coverage.

Projects

AmFlow – Attendance Management System | *Java, Spring Boot, React, MySQL, JWT*

- Developed a full-stack web application to streamline employee attendance, leave, and payroll management.
- Engineered and secured **RESTful APIs** using **Spring Boot** with JWT-based authentication and role-based access control (Admin, User) to ensure data integrity.
- Conducted comprehensive unit testing using **JUnit** and **Mockito** to ensure code quality, achieving high test coverage for the service layer.
- Designed and implemented a relational database schema in **MySQL** and utilized **Hibernate** for object-relational mapping.
- Created a responsive, user-friendly frontend with React.js, consuming the backend APIs to provide a seamless user experience.

RiskMod: Portfolio Risk & Performance Platform | *Java, Spring Boot, Hibernate, MySQL*

- Architected a secure Spring Boot REST API for managing user portfolios.
- Integrated with the Alpha Vantage financial API to fetch live stock prices and 100-day historical data.
- Implemented a financial modelling service to calculate portfolio **Performance** (Total Return) and **Risk** (Volatility & Sharpe Ratio).
- Architected a normalized, relational database schema in **MySQL** and **Spring Data JPA**.
- Implemented a **CI/**CD pipeline using **GitHub Actions** to automate building, testing, and pushing the containerized application image to **Docker Hub**.

Certifications

- **Java Spring Framework 6, Spring Boot 3, Spring AI** | Udemy
- **AWS Fundamentals** | Coursera
- **Microservices: Designing Highly Scalable Systems |** Udemy