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

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.

CoreOS – Gym Management System | *Java Spring Boot, Hibernate, MySQL*

- Built a robust backend system to manage gym memberships, class schedules, and user bookings.
- Implemented core features including user registration with password encryption, JWT-based authentication, and role-based access for members and trainers.
- Developed a booking module with validation checks for active memberships and class capacity, preventing scheduling conflicts.
- Created comprehensive **RESTful APIs** and implemented custom exception handling for robust and reliable operation.

Certifications

- **Java Spring Framework 6, Spring Boot 3, Spring AI** | Udemy
- **AWS Fundamentals** | Coursera
- **Microservices: Designing Highly Scalable Systems |** Udemy
- **Enhancing Soft Skills and Personality** | NPTEL

Key Strengths

- **Problem Solving:** Strong aptitude for analysing complex problems and developing efficient, scalable solutions.
- **Continuous Learning:** Actively seek out and learn new technologies and best practices in software development.
- **Collaboration:** Excellent communication skills with experience working in team environments to achieve project goals.