

# ADITYA RAJ SINGH

Full Stack Java Developer / Spring Boot & React / REST API Specialist

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## Professional Summary

Java Full-Stack Engineer with expertise in building scalable, cloud-native applications using **Spring Boot** and **React.js**. Proficient in **DevOps** practices, including containerization with **Docker**, orchestration via **Kubernetes**, and automated **CI/CD** pipelines. Skilled in designing secure **REST APIs** (OAuth2/JWT) and real-time systems, with a focus on delivering production-ready, resilient software solutions.

## Education

### Bachelor of Technology in Computer Science Engineering

Haldia Institute of Technology | CGPA – 9.1 | (2023 – Expected Graduation: 2027)

### Higher Secondary Education (Class XII)

St. Thomas Church School, Howrah | 87.25% | (2021 – 2023)

## Skills

- **Languages:** Java, Python, JavaScript, C, SQL
- **Databases:** MySQL, PostgreSQL, MongoDB
- **Tools:** Git, GitHub, VS Code, IntelliJ Idea, Junit
- **Frontend:** React, HTML5/CSS3, Tailwind CSS
- **Backend:** Spring Boot, REST APIs, Microservices, Node.js
- **DevOps:** Docker & Kubernetes
- **Soft Skills:** Communication, Problem-Solving, Team Collaboration, Agile Mindset

## Projects

### Recyconnect | Java Spring Boot, React.js, Kubernetes, Docker, PostgreSQL, WebSockets

- Engineered a scalable full-stack ecosystem using **Spring Boot** and **React**, orchestrating microservices with **Kubernetes** and **Docker** to ensure **high availability** and **seamless production deployment**.
- Developed a real-time geospatial interface with **Leaflet.js** and **WebSockets**, enabling live service tracking and instant bi-directional updates between users and recycling providers.
- Secured the platform using **Google OAuth2** and **JWT** for stateless authentication, implementing granular **Role-Based Access Control (RBAC)** across Admin, NGO, and User dashboards.
- Established a CI/CD pipeline via **GitHub Actions**, automating multi-stage builds and container registry pushes to eliminate manual deployment overhead.

### AdiBook | PHP, MySQL, HTML, CSS

- Architected a secure and modern PHP-based user login system with **authentication**, **session management**, and **MVC architecture**.
- Implemented secure database practices by utilizing prepared statements to mitigate **SQL Injection vulnerabilities**, ensuring data integrity for all user credentials.

## Certifications & Achievements

- **Backend Development Excellence** | 1st Runner-Up (Apr 2024), demonstrating proficiency in building secure **PHP** server-side architectures and optimized **MySQL** database schemas.
- **State-Level Athlete** | **Bronze Medalist in Taekwondo** (State Level) and **Gold Medalist in High Jump** (High-School Level).

## Extras

- **Member**, Computer Society of India (2024–2025)
- **Languages**: English (Fluent), Hindi, Bengali
- **Hobbies**: Gaming, Listening to music, Coding