

RAJAT SINGH

Java Backend Developer (in progress) | Spring Boot, REST APIs, MySQL | DSA & OOP | BCA Student

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PROFESSIONAL SUMMARY

Ambitious BCA student aspiring to become a **Java Backend Developer**, with hands-on experience in **Spring Boot**, **REST APIs**, **MySQL**, and **Data Structures and Algorithms (DSA)**.

Key project: **India Data Center Water Risk Tracker** — a full-stack application that analyzes groundwater stress in relation to data center locations and transparency across 10 Indian data center sites (AWS, Google, Microsoft, Meta, among others).

- **Backend:** Developed using **Spring Boot** and **MySQL**, featuring a risk-scoring engine and an AI assistant powered by **Gemini** for multi-turn inquiries.
- **Frontend:** Created a scroll-driven interactive map utilizing verified facility data from public sources.
- **Deployment:** Live backend on Railway and frontend on GitHub Pages.

🌐 Live demo: rajat-builds.github.io/india-water-risk-tracker

Additionally, developed two smaller REST APIs (Student Management, Library Management) to enhance backend fundamentals, focusing on service layers, validation, and full CRUD operations.

Consistently solving DSA problems, tracked on GitHub.

EDUCATION

Greater Noida Institute Of Technology | Greater Noida West
BCA

2024 - 2027
CGPA : 6.5

- Pursuing a Bachelor of Computer Applications (BCA).
- National-Level Hackathon Finalist, achieving **12th place out of over 2,000 teams**.
- Specialized in **Java Backend Development**, **Spring Boot**, REST APIs, MySQL, and DSA.

PROJECTS

India Data Center Water Risk Tracker | 🌐 Github 🌐 Website

2026 - 2026

Fully Completed By Myself

- **Developed** a Spring Boot and MySQL backend with a custom risk-scoring engine to assess groundwater stress and disclosure quality for **10 data center facilities**.
- **Integrated** the Google Gemini API to build a context-aware AI assistant that answers natural-language questions about **10 facility profiles**.
- **Designed** a scroll-driven interactive dashboard visualizing **10 independently researched data center facilities** with location details, risk scores, and sustainability insights.
- **Deployed** the backend on Railway and the frontend on GitHub Pages, configuring CORS and environment variables for reliable API communication.

Technologies / Tools Used : Java, Spring Boot, Spring Data JPA, MySQL, Google's Gemini API, vanilla JavaScript, HTML, CSS, AI

Library Management System REST API | 🌐 Github

2026 - 2026

Self Project

- Developed a **RESTful Library Management System** using **Java**, **Spring Boot**, and **MySQL** to effectively manage books and library records.
- Implemented **CRUD APIs**, integrated MySQL with **Spring Data JPA**, and adhered to a layered architecture for enhanced scalability and maintainability.

Technologies / Tools Used : Java, Spring Boot, MySQL, Postman, JPA

SKILLS

Programming Languages :

Java

Frameworks & Libraries :

Spring Boot, Spring Data JPA

Tools & Platforms :

Git, GitHub, Postman, IntelliJ IDEA, VS Code

Databases :

MySQL

Soft Skills :

Team Collaboration, Communication, Time Management, Collaboration, Teamwork, Adaptability, Problem Solving

Languages :

English (Professional Working Proficiency), Hindi (Native)