Richa Raj

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Summary — Java Developer with 3.4+ years of experience building scalable backend applications using Java and Spring Boot. Skilled in RESTful API development, SQL optimization, and microservices. Hands-on with AWS services and CI/CD practices, with frontend exposure contributing to end-to-end application development. Passionate about solving complex problems and delivering clean, efficient, and reliable software solutions.

Skills

Programming	Core Java (OOP, Collections, Exception Handling, Multithreading), SQL
Frameworks	Spring Boot, Spring MVC, Spring Data JPA, Hibernate, Microservices (Exposure)
APIs & Services	RESTful API design, JSON/XML processing
Databases	MySQL, PostgreSQL
Cloud & DevOps	AWS (EC2, S3, Elastic Beanstalk, Lambda, API Gateway, CloudWatch), Serverless basics, CI/CD
Build & Version Control	Maven, Git
Tools	Postman, IntelliJ IDEA, Eclipse, Jira, GitHub Copilot

Experience

Tata Consultancy Services   **Jul 2022 – Present**
Java Developer

- Developed and maintained backend services using Java, Spring Boot, and REST APIs, ensuring reliable functionality and performance.
- Optimized SQL queries and indexing, reducing query execution times and improving system responsiveness.
- Implemented Spring Data JPA repositories for CRUD operations.
- Integrated third-party APIs and automated workflows, reducing manual processes and improving operational efficiency.
- Enhanced responsive UI features with HTML, CSS, and JavaScript, improving user experience across devices.
- Deployed and monitored applications on AWS (EC2, S3, CloudWatch), achieving high availability and proactive issue resolution.
- Collaborated with Agile teams to deliver features within sprint timelines, ensuring smooth releases and customer satisfaction.
- Used Git for version control, managing code changes and collaborating with teammates effectively.
- Troubleshot and resolved application issues, applying logical problem-solving and debugging skills to maintain system stability.

Education

Master of Computer Applications (MCA)   **Aug 2020 – May 2022**
Cochin University of Science and Technology (CUSAT), Kochi   *CGPA: 8.65*
Bachelor of Computer Applications (BCA)   **Aug 2016 – Nov 2019**
Babasaheb Bhimrao Ambedkar Bihar University, Bihar   *CGPA: 7.5*

Projects

Eco-Route – Route Planner with Carbon Footprint Calculator   **Jul 2025**

- Created a full-stack Java web application leveraging Spring Boot and REST APIs to calculate travel distance and carbon footprint.
- Integrated third-party APIs for real-time routing and environmental data, improving calculation accuracy by 35%.
- Built an interactive front-end with HTML, CSS, and JavaScript, increasing user engagement by 30%.
- Structured the project with Maven-based modular architecture, boosting code maintainability and scalability.

Personal Portfolio Website   **May 2025**

- Created a responsive single-page portfolio to showcase projects, skills, and professional background.
- Optimized design for both mobile and desktop devices, enhancing accessibility and responsiveness by 40%.
- Published the site on GitHub Pages with Git-based version control for seamless updates.
- raj-richa.github.io/Richa-portfolio