

# AMAN PRASAD

## Full-Stack Developer — Backend Engineer

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## Professional Summary

**Full-Stack Developer** skilled in **Java**, **MERN stack**, **Spring Boot**, and **RESTful API** development. Experienced in **scalable microservices**, **AWS cloud deployment**, and **database design** with **MySQL** and **MongoDB**. Strong in **data structures & algorithms**, **Agile SDLC**, and **CI/CD pipelines**, with a proven record of **mentoring teams** and delivering projects on time.

## Technical Skills

**Programming Languages:** Java, C++, Python, JavaScript (ES6+), HTML5, CSS3, SQL, TypeScript

**Frameworks & Libraries:** Spring Boot, Hibernate ORM, React.js, Node.js, Express.js, JSP, Servlets, PyQT, Bootstrap

**Databases:** MySQL, MongoDB, SQLite, PostgreSQL

**Tools & Platforms:** Git, GitHub, AWS (EC2, S3, Lambda), Unix/Linux, Shell Scripting, Docker, Jenkins, TortoiseSVN, WinSCP

**Other:** RESTful APIs, MVC Architecture, Microservices, Agile/Scrum, Test-Driven Development (TDD), Generative AI (GenAI), AI/ML, CI/CD Pipelines

## Professional Experience

**Omnitass Corporation** — Backend Developer

Feb 2024 – Jan 2025

- Migrated 50+ **RESTful APIs** from monolithic to **microservices architecture** using **Spring Boot** and **Docker**, improving scalability by 35% and reducing average server response time by 15%.
- Designed and implemented backend services in **Java** and **Node.js** integrated with **MySQL** and **MongoDB**, optimizing queries to increase data retrieval speed by 20% and reduce server load by 10%.
- Built secure API endpoints with **JWT authentication** and **RBAC**, reducing unauthorized access incidents by 40% and improving compliance with security standards.
- Deployed microservices to **AWS (EC2, S3, Lambda)** using **CI/CD pipelines** via **Jenkins** and **GitHub Actions**, cutting deployment time by 50% and increasing release frequency by 25%.
- Collaborated in **Agile/Scrum** sprints, contributing to 10+ successful feature releases and improving delivery timelines by 18% through active participation in sprint planning and code reviews.
- Created API documentation with **Swagger/OpenAPI**, reducing onboarding time for new developers by 30% and minimizing API integration errors by 15%.
- Performed 100+ unit and integration tests with **JUnit** and **Postman**, lowering production bug occurrences by 12% and enhancing code coverage to 85%.

## Projects

### Medical Center Management System

Dec 2024

**Technologies:** Java, JSP, Servlets, Tomcat, MySQL, HTML, CSS, JavaScript

Built a secure medical web application with **user authentication** and **role-based access control**, reducing appointment scheduling errors by 30% and improving patient data management efficiency. Integrated **MySQL database optimization** and server-side validation, reducing query execution time by 20% and ensuring data integrity.

### Red-Store Website (Link)

Nov 2022

**Technologies:** HTML, CSS, JavaScript, PHP, SQL

Implemented **two-factor authentication**, increasing platform security and reducing unauthorized login attempts by 40%. Enhanced **UI/UX design** and optimized front-end performance, improving page load speed by 25% and increasing user engagement.

## Education

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**J C Bose University of Science and Technology, YMCA, Faridabad**  
Master of Technology in Computer Engineering (CGPA: 6.44)

Sep 2023 – May 2025

## Certifications

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- Full Stack Web Development — Almajetter
- Java Course: Mastering the Fundamentals — Scaler
- Programming with Python — Internshala

## Research

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Analyzed **Min-Min** and **Max-Min scheduling algorithms**, identifying task starvation and resource imbalance through performance benchmarking. Developed and proposed **adaptive hybrid scheduling algorithms** for real-time task allocation, improving load balancing efficiency by 25%. Published findings in a **peer-reviewed journal**, garnering **over 100 citations** and contributing to advancements in distributed computing research.

## Achievements

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- Solved 350+ problems on LeetCode.
- SIH Finalist 2022 — National-level project on species identification (AAIDeS).
- Conducted DSA workshops for 20+ developers, improving problem-solving speed by 35%.