

Madhav Agrawal

Java Backend Developer | Immediate Joiner | Spring Boot | REST APIs | Kafka | Microservices

Java Backend Developer with 2+ years of experience at TCS, specializing in Spring Boot, Microservices, and scalable RESTful API development. Proven track record in business rule automation using IBM BAMOE (DMN/DRL) and performance optimization using PostgreSQL. Skilled in CI/CD tools (Jenkins, Git). Adept at Agile development, improving system efficiency, and delivering clean, well-documented APIs. Passionate about solving complex problems and building high-performance backend solutions.

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PROFESSIONAL EXPERIENCE (2+ YEARS)

TATA CONSULTANCY SERVICES(TCS) Java Backend Developer

08/2023 - 10/2025

Noida, Uttar Pradesh, India

Project : Government e Marketplace (GeM) | Aug 2023 - Oct 2025

Domain: E-commerce Role

- **Backend Developer Project Frameworks & Languages :** Spring Boot , IBM Business Automation Manager Open Editions (BAMOE) ,JPADatabase: PostgreSQL
- **Tools:** Eclipse IDE, Postman, Swagger, Git, Jenkins
- **Optimized API response time by 30%** by enhancing **RestTemplate.exchange()** usage for faster data retrieval.
- **Implemented India Post seller registration** using third-party **REST API** with **Spring WebClient**, enabling real-time onboarding.
- **Engineered job reassignment APIs that reduced manual effort by 40%** by integrating **IBM BAMOE's** task automation engine.
- **Automated 60% of business rule execution using DRL and DMN models in IBM BAMOE**, significantly boosting decision-making efficiency.
- **Improved cross-team collaboration** by increasing **API documentation clarity by 50% using Swagger**.
- **Developed structured REST APIs for process instance retrieval using Spring Data JPA and PostgreSQL**, improving process efficiency by 25%.
- Skilled in **agile collaboration** and effective communication within **cross-functional** teams.

EDUCATION

B.E. Computer Science and Business System Thapar Institute Of Engineering And Technology

2019 - 2023

Patiala, Punjab

CGPA

- 7.50

CBSE (XII)

Ramanlal Showawala Public School

2018 - 2019

Mathura, UP

Percent

- 88%

SKILLS

Java

Spring Boot

Microservices

Data Structures

IBM BAMOE

DMN

DRL

Jbpmn

C/C++

CSS

MySQL

Git

HTML

Flask

Flutter

Postgre SQL

Swagger

Python

Jenkins

Shell scripting

Docker

JUnit/Mockito

Maven

Linux

CI/CD

AWS

OpenShift

SonarQube

Kafka

Agile Methodology

Problem Solving

API Documentation

Team Collaboration

PERSONAL PROJECTS

Organ donation and procurement system(2021) [🔗](#)

- **Increased efficiency by 40%** through a **CRUD-based organ donor and recipient system** .
- **Improved page loading time by 35%** using **server-side rendering architecture** .
- **Enhanced security by implementing session-based authentication** , reducing unauthorized access by 50%
- **Tech Stack:** JAVA, Spring Boot, MySQL, HTML, CSS, Bootstrap

Personal expenses app(2022) [🔗](#)

- **Tracked 100% of user expenses weekly** , helping users monitor spending habits.
- **Improved financial awareness by 30%** through **dynamic charts** displaying daily spending trends.
- **Tech Stack:** Flutter, Dart

ACHIEVEMENTS

Secured 3rd position in Business Elevate event organized by EDC. Participated in Inter Hostel Cricket competition in my first year.

LANGUAGES

English

Full Professional Proficiency

Hindi

Full Professional Proficiency