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Krishna Tyagi

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PROFESSIONAL SUMMARY

Backend Software Engineer specializing in scalable multi-tenant SaaS systems, **Spring Boot**, **MySQL**, and **Java 17**. Experienced in logistics APIs (UPS, TForce), subscription billing (PayPal), tax automation (TaxJar), and fraud detection (IPQS). Strong in SQL profiling, log tracing, and performance optimization with a focus on delivering reliable, production-ready backend services.

PROFESSIONAL EXPERIENCE

Innobit Systems

Software Engineer (Java Backend)

Ghaziabad, India

Dec 2024 – Present

AfterMarket - Multi-Tenant SaaS Platform for Asset Management & eCommerce

- **Multi-Tenant Platform Development:** Designed a scalable multi-tenant SaaS architecture ensuring complete tenant isolation via **merchantId** and subdomain-based authentication.
- **Subscription & Access Control:** Integrated **PayPal Subscriptions** with automated renewals, webhook-driven billing, and tenant access enforcement.
- **Order & Refund Management:** Developed full order lifecycle workflows including create, update, cancel, returns, and refunds; integrated with **UPS** and **TForce Freight** for forward/reverse logistics.
- **BillMe (Pay Later):** Built OEM-focused deferred payment system using sanction-code credits and automated refund adjustments.
- **Shipping & Tax Automation:** Integrated **TaxJar** for tax computation; implemented hybrid carrier selection, bin-packing logic, and TForce-specific shipment grouping.
- **Performance Optimization:** Reduced API latency by optimizing SQL queries, enforcing pagination, and minimizing heavy entity loads.
- **Fraud Detection & Security:** Integrated **IPQS** (IP/email/phone fraud analysis). Migrated authentication from header JWTs to **secure cookie-based Keycloak**.
- **Debugging & Issue Resolution:** Resolved production issues using deep log tracing, SQL profiling, and step-by-step debugging across order, booking, and refund modules.
- **Analytics Dashboards:** Configured and deployed **Apache Superset** dashboards for KPI visualization and operational monitoring.

PlatUI

Software Engineering Intern

Ghaziabad, India

Jan 2024 – Apr 2024

PlatUI Core Platform - AI-Powered Low-Code Automation Tool

- **Frontend Development (React.js):** Developed responsive **Contact Us** and **Settings** pages improving UI consistency.
- **Flask Middleware API:** Built a **Python Flask** middleware bridging Java backend and OpenAI API, returning structured AI-generated responses.
- **Cross-System Debugging:** Debugged async and data-flow issues across React, Flask, and Java microservices to ensure reliable communication.

EDUCATION

ABES Institute of Technology

Bachelor of Technology in Computer Science (AI Specialization), GPA: 7.6/10

Ghaziabad, UP, India

Oct 2021 – Jun 2025

TECHNICAL SKILLS

Languages: Java, Python, SQL, C++

Frameworks: Spring Boot, Hibernate/JPA, Django, Flask

Databases & Tools: MySQL, Apache Superset, Git, Postman

Integrations: UPS, TForce Freight, PayPal Subscriptions, TaxJar, IPQS, Keycloak, OpenAI API

Core Strengths: REST API Design, Multi-Tenant Architecture, Secure Cookie Authentication, Performance Optimization, Log Tracing, SQL Debugging, Root-Cause Analysis