Yash Kumar Singh

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PROFESSIONAL EXPERIENCE

Walmart Global Tech — Software Engineer   **September, 2022 – Present**
On payroll of Genpact   *Bangalore, KA*
Project - Chargeback Validation and Update

- Built a high-throughput chargeback validation **Microservice suite for Walmart's finance operations**, enabling parallel processing of close to 250K+ dispute transactions daily via **Kafka partitioning**, and ensuring throughput could scale to company's volume.
- **Refactored monolithic validation logic** into parallelized microservices, enabling 3× faster chargeback evidence verification, cardholder data, and settlement information. Introduced **Kafka consumer groups** and partition tuning to maintain message order and reducing message lag by over 60%.
- **Deployed CI/CD pipeline** using **Jenkins** and **Docker** and , reducing deployment time by 50% and achieved 92% code coverage through **SONAR** and unit testing.
- Implemented **idempotent processing**, **DLQ (Dead Letter Queue)** handling, and **backoff retry strategies** to handle failed validations without data loss and ensuring 100% data integrity.

Project: MTC (Market-to-Cash Repricing)

- **Engineered a promotion-based repricing microservice** within Walmart's Market-to-Cash system, dynamically recalculating order values based on multi-tier promotional and conditional pricing rules,reducing manual price adjustments by 35%.
- Integrated **Apache Kafka** for event-driven communication between Order, Pricing, and Promotion services, ensuring asynchronous updates, data consistency, and fault tolerance across across 50+ distributed components with less than 200ms update latency.
- Enhanced performance under peak loads by introducing **caching, batch processing, and query optimization**, reducing average response time by **25–30%** and improving system scalability.

TECHNICAL SKILLS

Languages: Java, C++, SQL, JavaScript, HTML/CSS

Technologies/Frameworks: Spring Boot, Spring Security, Spring Batch, REST APIs, React

Database/Cloud: MySQL, PostgreSQL, MongoDB, Azure, AWS basics

Tools/DevOps: Jenkins, Docker, Git, Maven, SonarQube, Postman, Swagger, Junit, Mockito, Grafana

Others: Data Structures and Algorithms, Object-Oriented Programming, Design Patterns, System Design, Apache Kafka, Microservices Architecture

PROJECTS

Private Driving School | *Java, Spring, React, PostgreSQL, CSS*   **January, 2024 – June, 2024**
- Built a full-stack React/Spring Boot application with 99.5% up-time and responsive design.
- Designed PostgreSQL database managing 10,000+ records with optimized schema and integrated React-Leaflet map displaying 5+ locations across 7 cities.
- Implemented 5 REST APIs with OAuth 2.0 authentication and added booking functionality with email notifications, improving user engagement by 40%.

EDUCATION

Vellore Institute Of Technology   Vellore
Bachelor of Technology in Electronics and Communication Engineering   *2018 – 2022*

ACHIEVEMENTS AND CERTIFICATIONS

- Hired individually at Genpact with above-standard fresher package, outside of bulk recruitment
- Certification for specialization in DSA and Full-stack Engineering (Scaler Academy)
- **1850+** rating on CodeChef and **1300** rating on Codeforces in competitive programming