



Yash Kumar Singh

Software Engineer

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Technical Skills

Languages: Java, C++, SQL, JavaScript

Technologies/Frameworks: Spring Boot, Apache Kafka, REST, React, Redux, ELK (Elastic-Logstash-Kibana)

Database/Cloud: MySQL, PostgreSQL, MongoDB, AWS

Developer Tools: Git, Eclipse, IntelliJ IDEA, Postman

Others: Data Structures and Algorithms, Object-Oriented Programming, High-Level System Design, Low-Level System Design, Multi-threading

Professional Experience

Genpact | Software Engineer, Bangalore, Karnataka

August 2022 – Present (2+ years)

Project: Chargeback Validation and Update -s (CDK Global)

- Spearheaded the design and development of a scalable **microservices architecture** for the Chargeback Validation Process, optimizing critical software workflows and achieving a **20% reduction in execution time**. Implemented complex business logic, **parallel processing**, and efficient **use of Kafka** for reduced processing times.
- Orchestrated the **development** and enhancement of **APIs**, integrating comprehensive **query optimization** techniques. Identified and resolved multiple process bottlenecks, resulting in a **30% reduction in processing time** and improved application performance.
- Deployed a robust CI/CD pipeline using **Jenkins** and **Docker**, automating software development, testing, and deployment processes. Achieved a code coverage of 92% through rigorous **unit testing** and quality assurance procedures.

Project: MTC - Market-To-Cash Repricing - (Coca-Cola HBC)

- Engineered a promotion-based order repricing system using **Java** and **Spring Boot**, enhancing system flexibility and maintainability by **35%**.
- Engineered a repricing microservice that applied promotion criteria and dynamically updated order values with 97% accuracy, integrating event-driven communication with Apache Kafka for optimizing system performance and ensuring fault tolerance.

Education

Vellore Institute of Technology, Vellore

June 2018 – May 2022

Bachelor of Technology in Electronics and Communication Engineering, GPA: 8.0/10

Vellore, Tamil Nadu

Projects

Private Driving School Website: Developed a website tailored for private driving centers to serve as their official online platform.

- Developed a **full-stack application** for a private driving school using **ReactJS** and **Spring Boot**.
- Designed and implemented a **PostgreSQL database** with schema design and relationship management to store entities such as Users, Blogs, and Courses.
- Architected the application using a **MVC design** paradigm, employing Spring JPA for database repositories, services, and controllers while adhering to **SOLID principles** for efficient and maintainable code.
- Link - [Driving School](#)
- **Technologies used:** Spring Boot, Spring REST, Spring data JPA, PostgreSQL, Spring Auth, React, CSS3, Redux, REST API

Achievements

- Awarded **Genpact Value Drive Distinction** for delivering over 20 complex Jira stories related to key projects.
- Secured top ranking and rating in Global Competitive programming in [Code chef](#) and [Code forces](#).