

# SHIVAM SINGH

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## SKILLS SUMMARY

- **Languages:** Java, HTML/CSS, JavaScript.
  - **Frameworks:** Spring, Spring Boot, Microservices, Spring Security, Spring Actuator, Elasticsearch, GraphQL, Camunda BPM, gRPC, Kafka, CI/CD, GCP Stack(Google BigQuery, DataFlow, Google cloud storage), Airflow.
  - **Databases:** MySQL, Oracle Database.
  - **Soft Skills:** Collaboration, Research, 14 Leadership principles, Agile methodologies, ITIL.
  - **Tools & Tech:** IntelliJ IDEA, Eclipse, JIRA, Confluence, Git, BitBucket, Docker, Kubernetes, Jenkins, ETL stack, Grafana, Eureka, redis, Protocol Buffers v3, JWT Token, Keycloak, Nginx, TeamCity build, SystemDesign.
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## PROJECTS

**LTIMindtree Limited (Specialist - Software Engineering)** **Jan 2025 - Present**  
(Java, ApacheBeam, GCP (Google BigQuery, DataFlow, Google cloud storage), Python, Oracle Database, )

- **Engineered high-throughput ETL pipelines** using **Apache Beam** (Java) on **GCP DataFlow** with **ParDo fusion**, custom Coders, **pipeline parallelism**, and **windowing strategies** to validate and ingest large-scale SQL data into **GCS buckets**.
- **Optimized pipeline performance** through **Autoscaling tuning**, **I/O backpressure control**, and **multi-threaded batch execution**, achieving **~60% reduction in processing latency** and **50% improvement in memory utilization**.
- **Developed an independent BigQuery-native ETL framework** using **partitioned & clustered tables**, **materialized views**, **analytical SQL**, **Python** and **DAG orchestration**, enabling scalable transform-and-load workflows.
- **Built fault-tolerant data processing logic** using **retry policies**, **exponential backoff**, **dead-letter queues**, and schema validation checkpoints, ensuring consistent and **exception-safe processing** for large datasets.
- **Achieved sub-5-minute processing of 10M+ records across Beam and BigQuery pipelines** using predicate pushdown, Sargable queries, parallel read APIs, and execution-plan optimization, **reducing compute cost by ~30%** and meeting strict SLAs.
- **Delivered HLD & LLD designs**, **executed Integration Tests**, **performed BigQuery EXPLAIN-stage analysis**, resolved schema-drift issues, and ensured **idempotent, production-ready deployments** through rigorous peer code reviews.

**Virtusa Consulting Services (Associate Consultant Technology)** **May 2022 - Jan 2025**  
(Java, SpringBoot, Microservices, MySQL, Elasticsearch, GraphQL, Kafka, ProtocolBuffers, gRPC, Oracle SODA, K8S)

- **Designed and developed RESTful, MVC-driven microservices** using **Spring Boot**, **JPA**, **DTO/DAO** layers, and **Kafka** event streams to consolidate CRM data into a centralized repository, delivering a **40% improvement in data processing throughput**.
- **Enhanced API architecture** with **API versioning**, **pagination**, **centralized exception handling**, and **multithreaded processing** using **ExecutorService** and **CompletableFuture**, improving **API performance and reducing latency by ~40%**.
- **Automated reconciliation and high-volume record processing** via **dynamic job scheduling** (Quartz/Spring Scheduler) with **retry logic**, **fault-tolerant workflows**, and **RBAC**, **reducing manual intervention by ~60%**.
- **Integrated Oracle SODA** to provide **NoSQL-like document handling** within a relational setup, enabling flexible schema management and simplified semi-structured data operations.
- **Improved observability and system reliability** using **ELK**, **Grafana**, structured logging, and performance dashboards, resulting in **~30% reduction in system downtime**.
- **Executed Integration Tests** using **JUnit5**, **Mockito**, and **API contract testing** with **Swagger/Postman**, managed CI/CD deployments using **Jenkins**, **Docker** and **Kubernetes**, ensuring high-quality, production-ready releases.

## Cognizant Technology Solutions (Programmer Analyst)

April 2019 – April 2022

- **Developed and maintained scalable software programs** totaling over 50,000 lines of code using reusable and refactored clean code principles. **Boosted system reliability and maintainability.**
- **Optimized databases**, resulting in a significant increase in processing speed and efficiency.
- Automated the Performance Improvement Plan process, saving clients numerous monthly work hours.
- Led and participated in all stages of the software development life cycle, including coding, testing, build creation, deployment, and environment migration.
- **Facilitated seamless client interactions**, ensuring timely resolution of production issues and minimizing impact on operations.

## Training | E-Commerce app:

- **Design a comprehensive shopping portal**, enabling users to browse, select, and add multiple products to their cart.
- Implemented secure payment functionalities, supporting Credit/Debit Card transactions.
- **Designed and integrated a user-friendly interface** for adding and managing delivery addresses.
- Developed back-end services to handle and display all user requests, ensuring seamless tracking of orders and interactions.
- **Utilized technologies** such as Java, Spring Boot, HTML, CSS, and SQL to ensure robust and scalable application.
- Conducted thorough testing and debugging to ensure a smooth user experience and high application reliability.

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## EDUCATION

### Sagar institute of research technology and science

Bachelor of Engineering, Electronics, and Communication | 63.5%

Bhopal, India

July 2013 – May 2017

### Saraswati Higher Secondary School

Intermediate, SSC | 66.0%

Rewa, India

July 2012 – May 2013

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## CERTIFICATES

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| • Master Spring 6, Spring Boot 3, REST, JPA, Hibernate.                     | <a href="#">Udemy   2024</a> |
| • <b>Multithreading, Parallel &amp; Asynchronous</b> Coding in Modern Java. | <a href="#">Udemy   2024</a> |
| • <b>System Design</b> (LLD + HLD) from Basics to Advanced.                 | <a href="#">Udemy   2024</a> |
| • Java <b>Unit Testing</b> with Junit & Mockito                             | <a href="#">Udemy   2024</a> |
| • Manual Software Testing + <b>Agile</b> with <b>Jira</b> Tool.             | <a href="#">Udemy   2023</a> |
| • Complete <b>Front-End Web Development</b> Course.                         | <a href="#">Udemy   2022</a> |
| • <b>MYSQL</b> developer certificate.                                       | <a href="#">Udemy   2021</a> |