

# 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)

(Java, ApacheBeam, GCP (Google BigQuery, DataFlow, Google cloud storage), Python, Oracle Database, )

Jan 2025 - Present

- 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)

(Java, SpringBoot, Microservices, MySql, Elasticsearch, GraphQL, Kafka, ProtocolBuffers, gRPC, Oracle SODA, K8S)

May 2022 - Jan 2025

- 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

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