

SAGAR DESAI

SOFTWARE DEVELOPER

CONTACT

- +91 6356151091
- desaisagar8090@gmzil.com
- Ahmedabad , Gujarat , India
- <https://github.com/SagarDesai10>
- https://leetcode.com/u/desai_sagar

SKILLS

- Java , Jsp , Servlet
- Spring Boot , Spring mvc
- Html , Css ,Js
- Postgresql , Mysql
- Data Structure , DBMS
- Git , Docker

LANGUAGES

- English , Hindi ,Gujarati

ACHIEVEMENT

- AMCAT(Aspiring Minds Computer Adaptive Test) Certificate
- Participated in 35+ CodeChef Contests and solved 150+ problems(Highest rating:1356)
- Solved 200+ problems on leetcode

EDUCATION

- H S C 2020
- OXFORD SCHOOL OF SCIENCE , AMRELI
- Percentage - 82
- S S C 2018
- SMT. SHANTABEN HARIBHAI GAJERA SCHOOL , AMRELI
- Percentage - 88

PROFILE

Self - motivated and hardworking graduate seeking an opportunity to work in challenging environment to prove my skills and utilize my knowledge for the growth of the organization.

WORK EXPERIENCE

- Grovetechn 2024 - PRESENT
- JUNIOR SOFTWARE DEVELOPER
 - Work On Spring Security With Authentication And Authorization
 - Work On Mapstruct , Hibernate , multi module
 - Work On Swagger , Entity Auditing
 - Work On AOP , Criteria api ,specification, microservices
 - Work On Postgresql
 - Work On DistributedTracing With Micrometer & Zipkin , Opentelemetry & jaeger
 - Work On Resilience4j Circuit Breaker And Retry With Microservice
- FINLOGIC TECHNOLOGY DEC 2023 - JUN-2024
- FULL STACK JAVA DEVELOPER INTERN
 - Creat Expense Manager Using JSP , Servlet
 - Creat Employee Detail Using Spring With MultiAction Controller and Annotation Work on Live Project MDMS(Marketing and Distribution Management System)
 - Work on Courier Agency Rate Master module of MDMS
 - Work on Distribute Queries module of Customer Care
 - Work on Update Mass Query module of Customer Care
 - Technologies Used During Internship Are
 - Html , Css , Java , Mysql ,JavaScript , JSP ,Servlet , Spring

EDUCATION

- B.E/B.TECH 2020 - 2024
- G H PATEL COLLEGE OF ENGINEERING & TECHNOLOGY , ANAND
- B.E / B.Tech in Computer Engineering
- CGPA - 8.69

KEY PROJECTS & PROBLEM SOLVING

Fault Tolerance & High Availability in Microservices

Challenge:

In a distributed microservices architecture, frequent downstream service failures led to cascading failures, degrading system availability and user experience.

Solution:

- Designed and implemented Resilience4j Circuit Breaker to prevent repeated calls to failing services, reducing system-wide failures.
- Applied Retry with exponential backoff to intelligently handle transient failures without overwhelming the system.

Impact:

- Significantly improved system fault tolerance and reduced mean time to recovery (MTTR).
- Enhanced system stability and improved response times under degraded conditions.

GitHub : <https://github.com/SagarDesai10/spring-cloud-gateway.git>

Enterprise-Grade API Security with Spring Security

Challenge:

Unauthorized access and security vulnerabilities posed risks to sensitive endpoints and critical business logic.

Solution:

- Architected a JWT-based authentication system to enable stateless, secure API access.
- Implemented fine-grained authorization controls using RBAC, and custom security filters.

Impact:

- Eliminated unauthorized access risks, ensuring compliance with industry security standards.
- Reduced attack surface while maintaining a seamless user experience.

GitHub : <https://github.com/SagarDesai10/spring-boot-scalable-backend.git>

Audit & Compliance with Hibernate Envers

Challenge:

Regulatory compliance and business requirements necessitated full tracking of database entity changes over time.

Solution:

- Integrated Hibernate Envers to enable automatic auditing of CRUD operations.
- Designed a versioning strategy to maintain historical data integrity.
- Built an audit dashboard with structured logs and queryable history for forensic analysis.

Impact:

- Provided traceability for data changes, enabling faster debugging and compliance reporting.

GitHub : <https://github.com/SagarDesai10/spring-boot-scalable-backend.git>

High-Performance Object Mapping with MapStruct

Challenge:

Manual DTO-to-Entity conversion caused performance bottlenecks and unnecessary boilerplate code.

Solution:

- Leveraged MapStruct to enable high-performance, annotation-driven object mapping.
- Optimized mapping strategies with custom logic and lifecycle hooks to handle complex transformations.
- Integrated SqlResultSetMapping , Lombok and MapStruct together, reducing verbosity while maintaining maintainability.

Impact:

- Reduced mapping execution time by 40%, improving API response times.
- Simplified codebase, leading to better maintainability and reduced technical debt.

GitHub : <https://github.com/SagarDesai10/spring-boot-scalable-backend.git>

Dynamic Query Optimization Using Criteria API & Specification

Challenge:

Predefined queries were inflexible and led to inefficient database access patterns, impacting performance.

Solution:

- Developed a modular and dynamic query engine using Criteria API & Specification for complex filtering.
- Applied Indexing & Query Optimization techniques to ensure efficient execution of dynamic queries.
- Leveraged pagination and caching mechanisms to minimize database load.

Impact:

- Reduced query execution time by 35%, improving API response latency.
- Enabled real-time analytics and reporting with on-demand, flexible filtering.

GitHub : <https://github.com/SagarDesai10/spring-boot-scalable-backend.git>

Distributed Tracing for Microservices Observability

Challenge:

Tracing transactions across multiple microservices was difficult, making debugging and performance monitoring highly challenging.

Solution:

- Implemented OpenTelemetry with Jaeger to enable distributed request tracking across microservices.
- Integrated Micrometer & Zipkin to collect system-wide telemetry data, enabling real-time performance monitoring.
- Established trace correlation IDs to provide end-to-end request visibility.

Impact:

- Reduced incident resolution time by 60%, significantly improving system observability.
- Enabled proactive performance tuning with real-time telemetry insights.

GitHub : <https://github.com/SagarDesai10/openTelemetry-Jaeger.git>

GitHub : <https://github.com/SagarDesai10/micrometer-zipkin.git>