Mahesh Gouni

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in GOUNI MAHESH • mahesh-gouni

SUMMARY

Java Full Stack Developer with a strong background in Designing and transforming ideas into cutting-edge Web Applications. Implemented the Software Development Life Cycle (SDLC), ensuring efficient project execution from planning through to Deployment and Maintenance. Skilled in Project Planning, collaborating with crossfunctional teams to define requirements, set milestones, and ensure timely delivery of impactful software solutions.

ROLES AND RESPONSIBILITIES

- Implemented **Git** and **GitHub** for version control, including repository initialization, staging, remote configuration, resolving merge conflicts, and applying commits with cherry-pick, merge and rebase.
- Ensured code quality by creating **PRs**, conducting reviews with at least two authenticators, handling emergency fixes through a **heartbeat branch**, and creating feature branches from develop for new functionality.
- Implemented Apache Maven for project build automation, dependency and lifecycle management, and efficiently configured the **pom.xml** to manage dependencies, plugins, and project settings.
- Leveraged OOP's to design reusable code by defining contracts through interfaces and abstract classes .
- Applied SOLID and DRY principles to build scalable product demonstrations. Ensured Single Responsibility with POJOs, used abstractions for Dependency Inversion, and designed services for Open-Closed.
- Implemented **Exception** handling with try-catch blocks and custom exceptions such as EmailAlreadyExistsException to manage business logic errors and ensure smooth application flow.
- Applied Collections like List for data storage and Map for fast lookups to enhance CRUD operations.
- Replaced traditional loops with **Stream API** for optimized performance and used Enums to manage static status codes, ensuring utilized Iterator and **ListIterator** for clean code and improved performance.
- Used **Swagger** API tools for comprehensive Rest API testing and defined the API contract in YAML, seamless integration with external systems using a bottom-up approach, **Postman** for validate **RESTful API**.
- Designed and managed scalable, efficient RDBMS solutions with **MySQL**, ensuring data integrity and security. Optimized development using MySQL Workbench for schema design, modeling, and query execution.
- .Optimized MySQL query performance through **pagination** and aggregation functions, efficiently generating summarized reports and insights from large datasets.
- Implemented **ACID**-compliant transactions in MySQL, utilizing views and joins to streamline data retrieval and ensure consistency, integrity, and reliability across complex database operations
- Implemented Dependency Injection (**DI**) and Inversion of Control (**IoC**) using the **Spring Framework** to manage object creation with built-in annotations and applied design patterns such as Singleton and Builder.
- Leveraged Spring annotations such as @Conditional, @Profile, and @ConditionalOnProperty for dynamic, environment-driven Bean creation and feature toggling, while using @ComponentScan and @Configuration to replace XML configuration, simplifying Spring bean discovery and enhancing application maintainability.
- Developed Spring Boot applications using the Spring MVC architecture, implementing @RestController with request mappings and @RequestBody to efficiently handle HTTP requests and send JSON responses.
- Utilized **Spring Data JPA** with **Hibernate** for database access, designing entity classes with relationships to model relational tables in Spring Boot, and used **ModelMapper** to convert between entities and DTOs.
- Implemented validation, created custom validators to ensure from Date is before to Date, and managed errors through Global Exception Handler @Service for Business logic in Spring Boot.
- Implemented FetchType , used @BatchSize, and applied **FETCH** in queries to resolve **N+1 problem** in Spring Boot, optimizing query performance by batching database fetches and minimizing unnecessary calls.
- Deployed MySQL and PostgreSQL databases in **Docker** containers . Set up and managed **Jenkins** and **SonarQube** within Docker environments to streamline continuous integration and enhance **Quality Assurance**.
- Created Webhooks and used Ngrok along with AlpineSocket to expose Docker containers to the outside

- world, enabling seamless integration and external access for Development and Testing purposes .
- Implemented Kong API Gateway within a Docker container, configuring a dedicated network and integrating it with a PostgreSQL database to persist service configurations and routing details. Deployed a Spring Boot application on Render, facilitating a Microservices architecture that ensures seamless interservice communication, optimized API management, and scalable service orchestration.

PROJECTS

Object detection using yolo algorithm

- Implemented YOLO object detection algorithm to identify and classify objects in real-time, achieving 95accuracy on benchmark datasets and enhancing automated surveillance capabilities.
- Designed a user-friendly interface using Bootstrap, increasing user engagement by 500 users and integrating
 a detection system that reduced processing time by 3 seconds per transaction, improving overall system
 performance.

Payment fraud detection using machine learning

 Developed a credit card fraud detection system utilizing Support Vector Machines (SVM) and data mining techniques, increasing the accuracy of identifying fraudulent transactions by processing over 10,000 transactions per minute

EDUCATION

AAR MAHAVEER ENGINEERING COLLEGE, JNTUH

Dec 2020 - Jul 2024

Bachelor of Technology

Computer Science AND Engineering

LITTLE FLOWER JUNIOR COLLEGE, TSBIE

Jun 2018 - Feb 2020

Intermediate

Mathematics , Physics , Chemistry

ZPHS NACHEPALLY Secondary School of Education

Mar 2018

DECLARATION

I hereby declare that the details above are correct and true to the best of my knowledge.

MAHESH GOUNI