MEGHANA GOPAVARAM

Java Full Stack Developer

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# SUMMARY

* Over **5+ years of experience** in designing, developing, and deploying robust, **scalable Java/J2EE-based web and enterprise applications.**
* Expertise in **object-oriented programming (OOP)** and **implementing N-tier architecture** with technologies such as **Spring, Hibernate, JSP, Servlets, JPA,** and **JDBC.**
* Skilled in **developing RESTful and SOAP web services** and creating real-time data streaming solutions using **Apache Spark, Kafka, and Flume.**
* Strong hands-on experience with **Spring Framework (AOP, IOC, Data JPA, Boot)** and modern Java (Java 8 features like Lambda Expressions, Stream API, and Functional Interfaces).
* Proficient in building **Single Page Applications (SPA)** using **React.js**, **AngularJS (Angular 4-8)**, and integrating them with back-end REST APIs.
* Experienced in developing and deploying microservices with **Spring Boot** and implementing **domain-driven design**.
* Hands-on experience with **containerization tools like Docker** and orchestration platforms such as **Kubernetes** for managing deployments.
* Knowledgeable in **cloud platforms** including **AWS (EC2, S3), GCP, Microsoft Azure**, and Pivotal Cloud Foundry services.
* Proficient in **version control systems** like GitHub, SVN, and GitLab, ensuring seamless collaboration and code management.
* Experience in **continuous integration/continuous deployment (CI/CD)** using tools like **Jenkins, Maven, Gradle, and Concourse.**
* Extensive experience in **front-end development** with **HTML5, CSS, JavaScript, Bootstrap, JQuery, AJAX,** and **TypeScript**.
* Adept at creating and maintaining **interactive UIs** using frameworks like **React.js** and libraries such as **jQuery and JSON.**
* Strong database experience with **PostgreSQL, MySQL,** and efficient SQL query optimization for performance tuning.
* Skilled in writing and maintaining **unit tests** with frameworks like **JUnit, Mockito,** and debugging using **Log4j.**
* Knowledge of **design patterns** (MVC, Singleton, Factory Method, DAO) and batch job development using **Quartz** and **Spring Batch**.
* Experience with **monitoring tools** such as **SonarQube**, **Prometheus**, **Grafana**, and managing **Apache Tomcat deployments.**
* Highly analytical and detail-oriented with a solid grasp of **agile methodologies (Scrum, TDD, XP)** and tools for iterative development.

# TECHNOLOGY

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| **Programming Languages:** | Java, J2EE, PL/SQL, Python |
| **SDLC Methodologies:** | Agile/Scrum, Waterfall |
| **Web Technologies:** | HTML5, SASS, LESS, CSS, CSS3, Angular JS Angular 2,4,7, Node js, React, SASS, Graph QL, JavaScript, JSON, AJAX, XML, jQuery, React MDL. |
| **Web Services:** | REST, SOAP. |
| **Application Servers:** | Apache Tomcat, WebSphere, JBoss . |
| **Frameworks:** | Spring MVC, Spring Boot, Spring Cloud, Struts, Hibernate, AngularJS, An-gular8, ReactJS. |
| **Databases:** | Oracle, MySQL, MongoDB, PostgreSQL, Google Firebase, Oracle 11g, Back4App, SQL Server. |
| **IDEs:** | IntelliJ, Visual Studio, Eclipse, and Spring Tool Suite (STS) |
| **Version Control Systems:** | GIT, GitLab and Release Management. |
| **Tools Viewer:** | Junit, Log4J, Mockito, Grafana. |
| **Build Automation Tools:** | Maven, Gradle, Jenkins, Jira. |
| **Tools & Technologies:** | Redis, J Frog, SonarQube, Docker, Prometheus, Kubernetes, Tableau, Kanban, Postman, Design Patterns,  Microservices, MVC Architecture, Solid Principles. |
| **Cloud** | AWS, AWS cloud watch, Terraform, Microsoft Azure |

**PROFESSIONAL EXPERIENCE**

## Client: Spotify, Full Stack Java Developer | Plano TX Jul 2024 *– Present*

* Designed and developed custom applications specific to Spotify’s needs, leveraging proficiency in databases like MongoDB, DynamoDB, and MySQL, ensuring seamless data management and integration.
* Worked on MongoDB database concepts such as locking, transactions, indexes, sharding, replication, and schema design to optimize data handling for high-traffic environments.
* Designed and developed DAO layer with Hibernate standards to access data through the JPA (Java Persistence API) layer, creating Object-Relational Mappings, ensuring efficient database interaction.
* Implemented Spring Boot for microservices, enabling dependency injection and RESTful API configuration to support scalable service architecture.
* Integrated Angular to build dynamic and responsive front-end applications, enhancing user experience and providing a smooth interface for interacting with Spotify services.
* Developed and maintained Spotify’s backend APIs and real-time data streams using Node.js, optimizing event-driven processes and supporting a responsive user experience across platforms.
* Utilized Apache Kafka for real-time data streaming, managing large-scale, event-driven processes efficiently across Spotify’s infrastructure.
* Validated the application by deploying and testing on containerized environments using Docker and orchestrating with Kubernetes for continuous integration and delivery.
* Collaborated with cross-functional teams to design system components and manage CI/CD pipelines using Jenkins and GitHub Actions, streamlining deployment workflows and enhancing team collaboration.
* Implemented and tested scalable microservices using Java 11 and Spring Cloud for service discovery, load balancing, and fault tolerance, ensuring Spotify’s services are resilient and highly available.
* Optimized application performance using caching mechanisms such as Redis, ensuring fast response times and high availability through AWS cloud services.
* Utilized Jira for agile project tracking and Confluence for documentation, improving communication and ensuring alignment across teams and project stakeholders.
* Designed and implemented unit tests using JUnit and Mockito, ensuring the reliability and stability of the application.
* Performed integration testing with Postman and Swagger for API validation, ensuring seamless end-to-end functionality.
* Deployed web applications on cloud-native platforms like AWS, using monitoring tools like Prometheus and Grafana to ensure system health and performance at scale.
* Collaborated closely with product and design teams to ensure that technical solutions aligned with business objectives, improving overall system reliability and user satisfaction.

**Environment:** Java 11, Spring Boot, Spring Cloud, Angular, MongoDB, DynamoDB, Kafka, Redis, Docker, Kubernetes, AWS, JUnit, Mockito, Prometheus, Grafana, Jenkins, GitHub Actions, Jira, Confluence, Eclipse, Angular, Node.js

**AirAsia, Software Engineer I | India *Jan 2021 – Dec 2022***

* Collaborated closely with cross-functional team to design, develop, and maintain in-house Flights Online Travel Agency (OTA) platform that allows users to fly non-AirAsia routes.
* Co-Owned the Design and Development of Hotel in Path as SNAP - which allows users to buy flight and hotel bundles at discounted rates. Tech Stack: Python, Angular, and Google Cloud Platform.
* Involved in implementing various screens for the front end using React JS and used various predefined components from NPM (Node Package Manager) and Redux library. Implemented reusable components for front end applications.
* Published Rest services for performing CRUD operations from database. Implemented RESTFUL web services using spring boot and consumed using spring REST services.
* Experience in working with React Router for developing Single Page Applications SPAs. Developed user interface by using the React JS, Redux for SPA development.
* Built and maintained RESTful APIs to enable seamless communication between the frontend and backend systems, facilitating access to recession- related data and insights.
* Owned Checkout platform level microservices built on Spring Boot framework for OTA. Some of the core functionalities are a. Fare Validation post flight selection. b. Checkout after obtaining traveler info. c. Fulfillment of inventory post payment. d. Order orchestration during payment and inventory fulfillment. d. Experience chaining from search, checkout, payment, fulfillment, and confirmation.
* Followed microservice best practices with Health Check endpoints - Kubernetes liveness and readiness probes. and Reduced

GCP billing cost by 55%.

* Facilitated in writing test suites using Junit 5, Mockito and SonarQube, ensuring code coverage across controllers, services, and repositories with 85% code coverage.
* Streamlined the CI/CD process for a. Python microservices, Angular applications, and React applications deployed to Google App Engine. b. Spring Boot micro services deployed to Google Kubernetes Engine. c. Publishing to Jfrog and SonarQube.
* Active participation in product discussions, product grooming, tech grooming, development, Testing, maintaining quality and seamless releases to production and monitoring the health. Performed load testing using Apache JMeter to determine the scalability of the product.
* High contribution to postproduction launches hawk eye review, monitoring, and telemetric funnel analysis. Handled all the Quality and release management across all platforms. Added logs for GCP and monitored the health of the platform. Adopted DevOps strategies to automate the Build Deployment of applications in dev, staging, pprd, and prod environments.
* Utilized adaptive patterns to call dependent services. And leverage cache like Redis. Built reusable libraries of services. Experience in application monitoring, log analysis, metrics, and alerting services using Prometheus, Grafana, GCP, and n Configuration management and Automation using SonarQube.
* Crafted and upheld automated test scripts using Java and Postman, which enhanced test coverage and ensured consistent test execution across multiple browsers, including Chrome, Firefox, and Edge.
* Fully owned the release management process by coordinating with the product, development, and QA teams during deployments after each sprint. Utilized Jenkins and CI/CD pipelines and adhered to proper release notes, use cases and version management.
* Conducted testing of Web APIs and performance testing using Swagger, Postman, JMeter, and network tabs.

**Environment:** Java8, HTML5, CSS3, Bootstrap, JavaScript, React JS, Core Java, Spring boot, jQuery, Jasmine, MongoDB, Agile, AJAX, Git, Angular JS, Junit, postman, Redis, RestAPI

## Velocity Info Tech, Full Stack Developer | Dallas, TX Jun 2018 – Dec 2020

* Designed and developed applications following Agile methodology, utilizing TDD, Scrum, and pair programming to ensure efficient and collaborative development processes.
* Created technical design documents, including class, sequence, and activity diagrams, to illustrate the flow and architecture for each use case.
* Developed dynamic, browser-compatible web pages using JSP, HTML, CSS3, JavaScript, and AngularJS, ensuring responsive and user-friendly interfaces.
* Built reusable Helper and Utility classes to be leveraged across multiple modules of the application, promoting code reuse and maintainability.
* Designed and developed business components and integrated them with the Spring framework for seamless functionality.
* Wrote data components for Plan Setup, created and called stored procedures using Java, HQL, and Hibernate for optimized data access.
* Configured and integrated Spring and Hibernate frameworks to enable effective data persistence and management.
* Integrated the business layer with Spring DAO, ensuring efficient communication between the data and business layers.
* Contributed to the design and development of the application using J2EE and RESTful web services for Service-Oriented Architecture (SOA) with JSON for data exchange.
* Developed and implemented custom REST exception handling controllers to manage bad requests and server-side exceptions.
* Defined and configured AWS Security Groups to control traffic and secure access to EC2 instances, ensuring proper access management and protection of cloud resources.
* Utilized Spring Batch for POJO-based development, building scalable and efficient batch processing solutions within the Spring Framework.
* Worked with JPA (Java Persistence API) and Hibernate for data access, ensuring efficient ORM-based interaction between the application and the database.
* Deployed applications using Azure for cloud infrastructure, ensuring high availability and reliability of the system.
* Leveraged Azure Red Hat OpenShift for deploying the application to the development environment, enhancing deployment flexibility and scalability.

**Environment:** Java, J2EE, Spring, Hibernate, AngularJS, Azure, AWS, JPA, Hibernate, Spring Batch, JUnit, Mockito, RESTful Web Services, JSON, Docker, OpenShift

* Streamlined installation of OpenShift on partner cloud infrastructure such as AWS and Azure.
* Designed & developed LDAP Authentication & Authorization Service using Java, LDAP, JNDI.
* Responsible for configuring and deploying the builds on Tomcat Web Server.
* Wrote notification service that executes daily, sends emails and escalations to participants.
* Involved in Unit & Integration Testing for different Modules in the application.
* Built & deployed scripts using ANT, Maven and shell scripts on Unix env.
* Used Oracle Coherence in Java Collection API to access and modify data, and the JavaBean event model to receive data change notifications.

**Environment**: J2EE/J2SE, Java, Java Script, AngularJS, Spring, JPA, Azure, Hibernate, JDBC, Tomcat Web server, LDAP, SOA, SOAP, XML, HTML, Log4j, RAD, Oracle, Maven and Windows 7.

# EDUCATION

**University of Missouri Kansas City Kansas, USA**

*Master’s in Computer Science Jan 2023* - *May 2024*