**GANESH A**

*Professional Summary:*

* Having overall **12+** years of experience in Product development of cloud native distributed applications in various domains such as Logistics, e-commerce, Global Trade, Retail by using **JAVA**, **J2EE** technologies.
* Having **6+** years of experience in building robust, highly available, Secure, and scalable of micro service-based applications using Spring Cloud.
* Having **2+** Yrs. of Lead experience in Technical Leadership, Architecture & Design, Mentoring & Coaching, Collaboration & Communication, Quality Assurance.
* Managing the team of 3-4 developers to give technical guidance and having one to one and Peer to Peer code reviews and clarifying the requirements.
* Experience in SDLC (Software Development Life Cycle) that includes Requirements Analysis, Design, Coding, Testing, Implementation, Maintenance with methodologies like Agile Methodology and followed Test Driven Development (TDD) and Scrum.
* Extensive programming experience on Frameworks such as Struts, Hibernate, EclipseLink, Spring, Spring Cloud, Apache Kafka.
* Good experience in cloud computing using IaaS products such as AWS and its services like API Gateway, Cloud Watch, CodeBuild, CodePipeline, CodeCommit, CodeDeploy, Cloud Formation, EC2, ECS, EFS, ELB, EKS, Fargate, IAM, MSK, Route 53, S3, SQS, SNS. SaaS products ERP systems Oracle NetSuite, Salesforce Cloud.
* Deployment in the Docker containers and orchestrating in Kubernetes cluster environments like in EKS, AKS, ECP.
* Experience in using RDBMs like Oracle, PostgreSQL, MS SQL Server and NoSQL DB like MongoDB.
* Good experience in writing complex JPQL, HQL, SQL, PL/SQLs.
* Experience in Client-side Technologies HTML, CSS, JavaScript, AJAX, Angular JS.
* Having good experience in using Tools Maven, Log4j, Junit, Mockito, GitHub, JIIRA, SonarQube, Jenkins, Spring Boot, Eclipse, STS, JMeter, LDAP, Apache DS, Jasper Reports IO, iTEXT, CI/CD, Postman, LDAP, Swagger, Prometheus, Grafana, ELK, Terraform.
* Extensively used various design patterns during application development.
* Experience in using SonarQube for continuous inspection of code quality to detect bugs, and security vulnerabilities.
* Having experience in Code Reviews, Unit testing, Integration Testing, Performance Testing, Logging, Distributed caching, fixing Production support issues, Strong debugging & troubleshooting skills and optimizing performance of the application.
* Hands on experience of Application Servers like WildFly / JBoss, Bea WebLogic, and Web Servers like Apache Tomcat.
* Collaborating well with the broader organization to include Product, QA, Senior leadership, Vendors, and other key stakeholders during work.

*Work Experience:*

* Working as Sr. Technical Consultant for **Albertsons Companies, Inc** **(ACI)**, Texas, USA from **Jun 2023** to **till date**.
* Worked as Sr. Technical Consultant for **Hewlett Packard Enterprise (HPE)**, Texas, USA from **Feb 2023** to **May 2023**.
* Worked as Sr. Software Engineer for **Lumens**, CA, USA from **May 2018** to **Jan** **2023**.
* Worked as Sr. Software Engineer for **Hitachi Vantara Corporation**, Texas, USA from **Sep 2016** to **Mar** **2018**.
* Worked as Software Engineer for **Crate & Barrel**, Illinois, USA from **Feb 2011** to **Sep 2016**.

*Educational Qualification:*

* Master of Computer Applications (**MCA**) from **Jawaharlal Nehru Technological University**, Hyderabad, India in 2009.
* Bachelor of Science (**B.Sc.**) from **Osmania University**, Hyderabad, India in 2006.

*Technical Skills:*

**Operating Systems :** Windows 7/10, Linux (Ubuntu 16.04 LTS)

**Programming Languages :** Java 8/11, J2EE

**Web** **Technologies :** HTML, JavaScript, CSS, AJAX, JSON, XML, AngularJS

**J2EE Technologies :** Servlets, JSP, JDBC, JNDI, JavaMail, Web Services.

**Frameworks :** Apache Struts, Hibernate, EclipseLink, Spring Core, Spring

Security, Spring Data, Spring Cloud, Spring Integration,

Spring Web, Redis, Apache Kafka, ELK Stack, Oauth2, JWT

**ERP Systems** (**SaaS**) **:** Oracle NetSuite, Salesforce Cloud.

**Application/Web Servers :** Bea WebLogic, JBoss, WildFly, Apache Tomcat

**Container Technologies :** Docker, ECP (Ezmeral Container Platform – K8s Cluster)

**Cloud Computing** (**Iaas**) **:** AWS (API Gateway, Cloud Watch, CodeBuild, CodePipeline,

CodeCommit, CodeDeploy, Cloud Formation, EC2, ECS, EFS,

ELB, EKS, Fargate, IAM, MSK, Route 53, S3, SQS, SNS),

Azure (AKS, Azure AD, MSAL, SAML 2.0, APIM, Istio, User

Groups, SSO, Client ID/Client secret, KeyVault )

**Databases :** RDBMs (Oracle, PostgreSQL, MS SQL Server), NoSQL

(MongoDB)

**IDE & Tools :** STS, Eclipse, Maven, Log4J, Mockito, JMeter, GitHub, Spring

Boot, Jenkins, JIIRA, SonarQube, Postman, LDAP, Swagger,

Apache Directory Studio, Jasper Reports IO, Prometheus,

Grafana, Slf4J, CI/CD, MongoDB Compass, Terraform, JMeter

**Professional Experience:**

Albertsons Companies, Inc (ACI), Plano, Texas, USA Jun 2023 to Till Date  
Sr. Java Tech Lead - Hybrid

Project Name **:** Merchant Supplier Portal (MSP)

Environment **:** Java11, Spring Core, Spring Cloud Micro Services, Spring Data, Spring

Security (OAuth2.0), Spring Integration, Spring AOP, MongoDB, DB2,

Docker, Spring Boot, Spring Tool Suite, Confluent Kafka, LogBack, Swagger,

Postman, Mockito, Jenkins, Enterprise GitHub, Veracode, JFrog, Gradle,

Helmchart, SonnarQube, Veracode, GraphQL, Appollo Server, Jasper Reports

IO, JIIRA, Confluence, Micrometer, Enterprise Grafana, AppDynamics, Azure

(AKS, Azure AD, MSAL, SAML 2.0, APIM, Istio, User Groups, SSO, Client ID,

Client secret, KeyVault), Windows / Linux

**Description:**

Merchant Supplier Portal (**MSP**) is a micro service architecture-based cloud-based application and it focuses on Components, technologies and interactions with Albertsons Systems, Partners, and Staff.

It’s built up with an extended Item data model that lays the foundation for an enterprise-level modernization across multiple portfolios. And it will retain key working functionalities from current Item Data Model (SSIMS) where applicable, while building additional attributes and better capabilities into the new Extended Item model. This model is built with following major components as:

* + Global Dashboard
  + Partner
  + Item (Overview, Hierarchy, Compliance, Selling & Category Attributes, Distribution)
  + Reports
  + Invoice

**Responsibilities:**

* Using Spring Cloud Micro Services and its architectural patterns implementing functional modules such as Global Dashboard, Partner, Item, Reports, Invoice.
* Implementing centralized microservices configurations, Client-side load balancing, API Gateways, Naming server, Fault tolerance, Circuit breaker.
* Involved in creation of Technical Design Documents and review of Low-Level Design documents as part of the application re-engineering.
* Using Spring Core module for performing Inversion of Control (IoC) for Spring beans to be initialization and business logic layer implementation for transaction and error handling.
* Enabledthe Cross-Origin Resource Sharing (CORS) to access and secure each microservices.
* UsingGraphQL for querying/mutating the data from/to the backend domain APIs.
* Implementing ORM module for all persistence CRUD operations that are performing on Data base MongoDB.
* Writing Native SQL, Criteria queries for complex functionalities and profiling them for optimizing queries for faster results.
* Using Swagger tool for documenting, versioning, testing through End Points of micro services.
* Implementing Spring Integration Mail API for sending success email to the recipients on successful completion of the process / transactions.
* Building each of the micro services as Docker images, registering them in the Docker Hub to deploy in Azure Kubernetes Service (AKS) in Azure using YML file and assuring the CI/CD of the application in the Dev / Test / UAT / Production environments.
* Authenticating and Authorizing application users using Spring security (oauth2) authentication in securing service-to-service communication among microservices.
* Using MockMvc to do Unit testing functional modules by Mocking the required objects and covering code coverage of up to 100%.
* UsingAppDynamics to analyze the APIs that are taking more time to process and complete to improve performance of the APIs.
* Using SonarQube for continuous inspection of code quality to perform automatic reviews with static analysis of code to detect bugs, code smells, and security vulnerabilities.
* Configuring Quartz, Cron jobs to schedule and run as per the scheduled time in performing the scheduled tasks daily to be run.
* Implementing Spring Boot Caching in persistence layer to reduce network calls between application & DB, for better performance.
* Using Confluent Kafka for monitor, manage data in real time & setting up in the AKS.
* Using JasperReports IO Generating reports in various formats for the functional modules and as per end user requirements.

Hewlett Packard Enterprise (HPE), Dallas, Texas, USA Feb 2023 to Apr 2023  
Sr. Java Tech Lead - Remote

Project Name **:** Global Trade Compliance as a Service (GTCaaS)

Environment **:** Java11, Spring Core, Spring Cloud Micro Services, Spring Data, Spring

Security, Spring Integration, MongoDB (NoSQL), Docker, AWS, Spring Boot,

Spring Tool Suite, ECP (Ezmeral Container Platform - Kubernetes Cluster),

HTTP / HTPPS/REST/AMQP, Swagger, Postman, Mockito, Slf4J, Jenkins,

CI/CD, JWT, GitHub, Postman Client, Swagger, SonarQube, GitHub, JIIRA,

Redis, Maven, JWT, Windows / Linux

**Description:**

**GTCaaS** as a service (aaS) as SaaS application for GTS Restricted Party List (RPL) and Embargoed Country screening application to ensure clients/customer are allowed to do business with HPE. The implementation of a highly available **GTCaaS** microservice application proxy layer to support IAM, Portals and SAPGTS with the capabilities like

* Account Registration and screening.
* Deduplication capabilities to ensure GTS doesn’t redundantly screen profile records and the GT business doesn’t have to perform redundant manual screening.
* Profile record synchronization with SAP GTS.
* Profile record delta updates to downstream systems.
* GT License screening.

**Responsibilities:**

* Used Spring Cloud Micro Services and its architectural patterns implementing functional modules such as Data validation, Data Deduplication, RPL / Embargo Screening, Delta Distribution, Contingent Screening, Data Initialization, Reporting, Audit Trail, License Screening.
* Implemented Java and Micro service based Architectural design patterns.
* Performed application modeling using UML Component, class, sequence diagrams.
* Involved in creation of Technical Design Documents and review of Low-Level Design documents as part of the application re-engineering.
* Used Spring Core module for performing Inversion of Control (IoC) for Spring beans to be initialization.
* Implemented ORM module for all persistence CRUD operations that are performing on Data base MongoDB.
* Written Native SQL, Criteria queries for complex functionalities and profiling them for optimizing queries for faster results.
* Used Swagger tool for documenting, versioning, testing through End Points of micro services.
* Building each of the micro services as Docker images, registering them in the HPE Docker Hub to deploy in ECP (Ezmeral Container Platform - Kubernetes Cluster).
* Authenticating and Authorizing application users using Spring security (oauth2) and JSON Web Token (JWT) as Token based authentication in securing service-to-service communication among microservices.
* Used MockMvc to do Unit testing functional modules by Mocking the required objects and covering code coverage of up to 100%.
* Performed Integration testing before releasing for QA validation to make sure that the functional code changes are not broken.
* Implemented distributed Caching in persistence layer using Redis and to reduce network calls between application & DB, for better performance.

Lumens, Sacramento, CA, USA May 2018 to Jan 2023 Tech Lead - Remote

Project Name **:** Product Information Management(PIM)

Environment **:** Java8, Spring Cloud Micro Services, Spring Data (Hibernate), Spring Core,

Spring Security, Spring Integration, MS SQL Server, Docker, AWS (AWS,

CodePipeline, EKS, CloudWatch, Cloud Formation, Lambdas), HQL, PL/SQL,

Spring Boot, Spring Tool Suite, SonarQube, GitHub, JIIRA, Redis, Oracle

NetSuite, Salesforce Cloud, Postman Client, Swagger, Jasper Reports IO,

Prometheus, Grafana, Apache Kafka, ELK Stack, Windows /Linux

**Description:**

**PIM** is a Cloud native Distributed application that allows users to create and maintain different functional components such as Product, Sku, Sku Dimensions, Price, Vendor, Brand, Price, Bulb of the system. This will send information to the 3rd party systems such as Oracle NetSuite for fulfilment, Salesforce Cloud (SCC) for sales. This is having ability to provide auditing, User management, Publishing information and Vendor uploads limited to Excel(csv). It provides support for integrating with NetSuite, Salesforce Cloud, Lumens Inventory systems.

**Responsibilities:**

* Implementing functional modules of the Product Information Management(PIM) such as Product, Sku, Price, Vendor, Brand, Price, Bulb, Inventory, Audit, Security, User management, Publishing, Workflow using Spring Cloud Micro Services and its design patterns such as centralized microservices configurations, Client-side load balancing, API Gateways, Naming server, Fault tolerance, Circuit breaker.
* Using Spring Core module for performing Inversion of Control (IoC) for Spring beans to be initialization and business logic layer implementation for transaction and error handling.
* Implemented Spring Boot microservices to process the messages into the Kafka cluster setup.
* Closely worked with Kafka Admin team to setup Kafka Cluster setup on the QA and Production environments.
* Using Kibana and Elastic search to identify the Kafka message failure scenarios.
* Implemented to reprocess the failure messages in Kafka using offset id.
* Using Spring Kafka API calls to process messages smoothly on Kafka Cluster Setup.
* Partitioning of Kafka messages and setting up the replication factors in cluster setup.
* Enhancing integration module by consuming 3rd party REST APIs of Oracle NetSuite to send data to this system for fulfilment of the Orders and REST APIs of Salesforce Cloud (SFCC) to send data for Sales by the customers.
* Managing the Vendor Inventory as well as In-house Inventory systems to receive the Inventory from the different vendors and to transfer that inventory levels to both 3rd party ERP systems – Oracle NetSuite as well as Salesforce Cloud (SFCC).
* Implementing ORM module using Hibernate for all persistence CRUD operations that are performing on Data base MS SQL Server.
* Writing HQL, PL/SQL queries for complex functionalities and profiling them for optimizing queries for faster results.
* Using Swagger tool for documenting, versioning, testing through End Points of micro services.
* Implementing Spring Integration Mail API for sending success email to the recipients on successful completion of the process / transactions.
* Deployed in the AWS EKS using YML file and assuring the CI/CD of the application in the Dev/Test/UAT/Production environments using AWS CodePipeline.
* Using AWS CloudWatch to collect metrics from applications, resources, and services. Monitoring through dashboards, troubleshooting with correlated logs and metrics, and set the alerts. Automating the responses to operational changes with Events and Auto scaling.
* Used Cloud Formation Templates (CFTs) to find the resources that are needed for the formation of cloud formation stacks.
* Involving in writing Java API for AWS Lambda to manage some of the services.
* Using @SpringBootTest annotation to test slice of functionality, @DataJpaTest to test persistence components.
* Performing integration testing before releasing for QA validation to make sure that the functional code changes are not broken.
* Debugging and troubleshooting micro services by implementing Spring Cloud Sleuth & Zipkin dependencies.
* Using SonarQube for continuous inspection of code quality to perform automatic reviews with static analysis of code to detect bugs, code smells, and security vulnerabilities.
* Configuring Quartz, Cron jobs to schedule and run as per the scheduled time in performing the scheduled tasks daily to be run.
* Implementing distributed Caching in persistence layer using Redis and to reduce network calls between application & DB, for better performance.
* Generating reports in various formats for the functional modules and as per end user requirements using Jasper Reports IO.
* Using Prometheus & tools to collect, store, check, and query metrics from running different micro services and visualize them through Graphs and Dashboards.

Hitachi Vantara Corporation, Dallas, TX, USA Sep 2016 to Mar 2018  
Sr. Java Developer

Project Name **:** oneTeam

Environment **:** Java8, Spring Cloud Micro Services, Spring Data (EclipseLink), Spring Core,

Spring Security, PostgresSQL, Mockito, Docker, AWS (ECS, EC2, S3), SQL,

PL/SQL, Spring Boot, Spring Tool Suite, SonarQube, Ubuntu, GitHub, JIIRA,

Postman Client, Swagger, LDAP, Apache DS, Prometheus, Grafana, Jenkins,

Terraform.

**Description:**

Wavity **oneTEAM** cloud application enables the creation of ad-hoc teams to get tasks accomplished in a timely manner. OneTeam also enables the creation, assignment and tracking of tasks assigned to team members or other individuals in the company who may not necessarily be part of the team. It also can allow non-technical users to Design and Deploy form-based applications and for companies to share the developed applications with other tenants on the Wavity platform. A report dashboard offers visibility into KPIs that the company needs to track. It provides other features like Messages, Polls, Events, File, Streams, Notifications, App marketplace, App Designer, Files attachment from Local as well as from Cloud.

**Responsibilities:**

* Developed oneTEAM functional modules Messages, Polls, Events, File, Streams, Notifications, App marketplace, App Designer, Files attachment from Local as well as from Cloud with Spring Boot based Spring Cloud Micro services.
* Implemented various design patterns of the Spring Cloud framework that provides.
* Consuming 3rd party system`s REST APIs like Google and Microsoft Outlook mailing, events APIs for creating and managing Events in oneTEAM.
* Written Server-side validations for required fields and validate data.
* Performed various database operations by mapping application domain objects to the relational database tables and vice versa with the database PostgreSQL.
* Used LDAP server for user info storing and implemented basic authentication using Spring Security.
* Defined Quartz Scheduler jobs to automate the jobs in the system.
* Defined JPQL, PL/SQL queries for complex data base operations, Views, and indexes.
* Using Swagger tool for Documenting, Versioning and Testing implemented Micro Services.
* Configured Jenkins to deploy QA, SIT, UAT, Production grade deployments through Docker containers in the EC2 instances of AWS (ECS) cloud infrastructure.
* Automating the Microservices deployment using Terraform.
* Creating Service accounts using Terraform wrt roles to support the services deployed for managing the ECP tech stack.
* Developing the Terraform scripts to get the certificates from the Bucket and create an SSL in the respective project on the fly without downloading the certs on the local machine.
* Using Prometheus tool to collect, store, check, and query metrics.
* Using Grafana tool to visualize the metrics as graphs and dashboards.
* Used Mockito in performing various Unit Test Cases and Suites for Unit testing for each of the functional modules.

Crate & Barrel, Northbrook, Illinois, USA Mar 2011 to Sep 2016  
Java Developer

Project Name **:** Global Freight Management (GFM)

Environment **:** Java7, Struts2, Spring Core, Spring MVC, Spring Data (Hibernate),

AngularJS, HTML, CSS, AJAX, Oracle, JUnit, Bea WebLogic server, iText

HQL, PL/SQL, Eclipse, Log4j, GitHub, JIIRA, Jenkins, SonarQube, Windows

JMeter

**Description:**

**GFM** Solutions provides the ability to document, manage, and monitor booking and tracking data necessary to streamline the shipping efforts of global supply chain. By this Solution companies will be able to reduce transportation costs, enhance carrier performance and improve on-time deliveries, increase visibility into shipment status, improve customer service, increase operational efficiency, and reduce manual processes.

**Responsibilities:**

* Involved in the development of functional modules like Shipment, Purchase Order, Vendor Booking, Commercial Invoice, Carrier Booking, Reports, Search Pages.
* Implemented EDI integration to accept the Transactions data from other 3rd party systems into the GFM system.
* Implemented Integration module to create Transactions using CSV file.
* Implemented the MVC pattern by using Struts for Pre & Post Processing of the Request, Spring (Web) for Business Logic and Hibernate for Persistence logic.
* Used struts validator framework for server-side data validations and AngularJS for GUI components development as Single Page application and client-side validations.
* Performed Synchronous and Asynchronous calls using AJAX -$http.
* Implemented Spring`s Data module by using Hibernate as ORM tool to interact with Data base Oracle for persistence operations using HQL queries.
* Involved in fixing SQL Injection vulnerabilities.
* Developed various Reports in PDF format for each of the Transactions and for End User requested customized reports using iText PDF.
* Connection Pool creation, Deployed, managed application in the ­­WebLogic server.
* Performed performance of the application using JMeter tool.
* Created Test Cases and Suites using Junit for Unit testing for each functionality and performed Integration testing before release for QA verification.