**Shankar Reddy K**

**Lead Java Full Stack Developer**

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 **Summary:**

* **Lead Full Stack Java Developer** with **10+ Years** ofexperience in **Design, Development** and **Deployment** of **web-based Client Server** business applications using **OOP’s Core Java, Java/J2EE** technologies and **UI** Technologies.
* Extensive background in a variety of fields, such as **E-Commerce,** **Banking and Insurance,** and **Healthcare**, demonstrating flexibility in applying technological solutions to business problems.
* Experienced in Designing, Developing, and maintaining **Java/J2EE** Enterprise application including **Java, Swings, JSP, Servlets, EJB, Struts, Spring MVC, Hibernate, Oracle 11g, JDBC, HTML5, CSS, JavaScript, jQuery, XML, XLST, Ajax, ANT, SOAP** and **Restful Web Services, java multi-threading, Java Thread, Safety, Perl,** and **Scala**.
* Rich experience in various frameworks includes **Spring Framework (Core, Web), Spring Boot, Spring Security, Spring Batch, Spring Data JPA, Spring Rest, Spring Data Redis, Hibernate, Apache CXF, JAX-RS using Jersey, Log4J, log back, Liquibase**.
* Proficient in developing web-based UIs using **JSP, HTML, DHTML, CSS, JavaScript, JSON, AngularJS, ActionScript, microservices, Dojo, jQuery, Ext JS, Ajax, Backbone.js, React.js,** and **Vue.js.**
* Experience on **MVC** architecture and using frameworks like **Angular 2/4 and React JS for creating Single-Page applications (SPA) using concepts like Dependency Injection, Promises, Services, Scope, Controllers and Directives.**
* Experienced **Cloud Solutions Architect** proficient in **AWS, Azure,** and **GCP**. Skilled in designing, implementing, and perfecting cloud architectures for scalability, security, and cost-efficiency.
* Experience in successful implementation of **DevOps (CICD)** model using **Jenkins, Gradle, SonarQube, Docker, Subversion, JFrog Artifactory, semantic versioning tools/frameworks/plugins** along with **WebLogic** and **JBoss server** from automation of code compile, unit, integration testing, code coverage, artifact publishing etc.
* Experience in developing the applicationwith **Agile Methodology**, **Waterfall Methodology** and **Test-Driven Development.**
* Experience in utilizing **Python Pandas** framework to provide data analysis.
* Experience with distinctive design patterns like **Singleton, Factory, Prototype, Business Delegate, Session Facade, Service locator, Visitor, Observer, Decorator, Front Controller, DAO** and **MVC.**
* Good Knowledge on working with **OAUTH2.0** to provide authentication and authorization to Rest services by exchanging Access tokens.
* Implementation of authentication for **Restful** web services using **Spring Boot Security Starter.**
* Used **Spring Security** framework to setup authentication and authorization for the application using firm wide **single sign on (SSO).**
* Experience with Microservices architecture and technologies like **Spring Boot, Spring Cloud, Pivotal Cloud Foundry, Amazon S3, Ceph, Docker** and **Kubernetes**.
* Experience in implementing **JAVA/JEE** design patterns such as **MVC, Singleton, Factory, API gateway, SAGA, Circuit Breaker,** and **Aggregator.**
* Extensive Experience in implementing **SOA** applications using web services with **XML, SOAP, WSDL, JAX-WS and JAX-RS**.
* Worked with **Angular** using **Angular CLI**, generated various components, routes, services, and pipes, and structured the application.
* Good Experience in **React JS** for creating interactive UI’s using **One-way data flow, Virtual DOM, JSX, React Native concepts.**
* Experience in using **React JS** **components, Forms, Events, Keys, Router, plus Redux, Animations and Flux concept.**
* Used **JWT (JSON web tokens)** mechanism for authentication and authorization security configurations using **Node JS.**
* Hands on experience with various Application Servers and Web Servers including **IBM Web Sphere, BEA Web logic, JBoss, Tomcat se**rver with wide variety of development tools such as **Eclipse, IBM RAD / RSA, and IntelliJ.**
* Developing Authentication & Authorization **OKTA, JWT** and **OAuth** for **Login & Register, AWS OKTA, and Lambda functions**.
* Proficient in using Amazon Web Services **AWS**. Extensive experience focusing on services like **EC2, Cloud Watch, Cloud Front, Cloud Formation, IAM, S3, Amazon RDS, Elastic Cache.**
* Managed **Amazon Web Services** like **EC2, S3 bucket, ELB, Auto-Scaling, SNS, SQS, AMI, IAM, Dynamo DB, Elastic search, Virtual Private Cloud (VPC)** through **AWS** Console and **API** Integration.
* Proficient knowledge of **Microsoft Azure Cloud Services (PaaS & IaaS), Internet of Things (IoT), Key Vault, Application Insights, Document DB, Azure Monitoring, Visual Studio Online (VSO),** and **SQL Azure.**
* Develop and maintain data pipelines using **GCP** services such as **Big Query, Dataflow,** and **Data prep.**
* Experience in handling messaging services using Apache **Kafka, JMS, TCP, UDP.**
* Expert in generating **Statistics and reports** from **Hadoop**.
* Proficient in **SQL and** wrote Stored Procedures, Triggers besides writing **DDL, DML** and transaction queries with development tools like **TOAD** and **Aqua Data Studio**.
* Experience in using **SQL, PL/SQL, ORM tool Hibernate** and has experience with **NoSQL** databases like **MongoDB.**
* Worked on different **OS UNIX** (Sun Solaris, AIX), **Linux, Windows 7** and **Windows XP.**
* Experience in using tools like **Ant, MAVEN, Junit, Jenkins, Bamboo, Easy Mock.**
* Experience in using **Log4J, Version Control** using **SVN, GIT** and **CVS**.
* Having experience in developing **Splunk Dashboards, Grafana, Kibana** and searches.
* Good experience in **XML** technologies like **XML, XSD, XSLT, DOM, SAX, JAXB.**
* Proficient with build automation tools like **Gradle, Maven** and **Ant** for builds and deployments to different environments.
* Experience on different **IDEs** such as **Eclipse, RAD, Spring Tool Suite, IntelliJ** and deployment using Application Servers like **Apache Tomcat, BEA WebLogic, Web Sphere, Glassfish, Camel** and **JBOSS.**
* Good team player with ability to solve problems, organize and prioritize multiple tasks.

**Technical Skills:**

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| --- | --- |
| Programming Languages  | Java, Python, SQL, PL/SQL |
| J2EE Technologies | JSP, EJB, JMS, JDBC, JPA, ESB, Servlets, EJB, JAXB |
| Web Technologies | HTML, CSS, XML, WSDL, DTD, DOM, ReactJS, Angular, TypeScript, Node.js, jQuery, JavaScript, BackboneJS. |
| Frameworks | Spring Boot, Spring Framework, Spring MVC, Spring Cloud, Spring Transaction Management, Spring Security, AngularJS, Angular, Bootstrap, Hibernate, Junit, Mockito, Struts. |
| Databases | Oracle, DB2, PostgreSQL, MySQL, NoSQL. |
| Version/Source Control | SVN, GitHub, CVS, Jenkins |
| IDEs | Eclipse, IntelliJ, NetBeans, VsCode, STS |
| Testing Tools | Junit, Mockito, SoapUI, Postman, JMeter, LoadRunner |
| Application/Web Servers | Oracle Web Logic, IBM Web sphere, Apache Tomcat, Apache Camel |
| Message Brokers | JMS, Kafka, RabbitMQ, ActiveMQ |
| Defect Tracking | JIRA, Bugzilla, Rational ClearQuest |
| Cloud Technologies | AWS, GCP, Azure, PCF |

**Professional Experience:**

**Client: Albertsons(E-Commerce), Pleasanton, CA Jun 2022 – Till Date**

**Role: Lead Full Stack Java Developer**

**Roles and Responsibilities**:

* Followed**Agile Methodology** in analyze, define, and document the application, which will support functional and business requirements. Coordinate these efforts with Functional Architects.
* Build scalable and robust backend services to support functionality, including product catalog management, shopping cart processing, order management, and user authentication.
* **Developed** the application using **Java 11 & 17** and implemented its features like lambdas Expressions, Time API, Streams, functional interfaces, collectors, default methods, type interfaces, for each and Sealed Classes and Interfaces, Pattern matching for switch, MacOS rendering pipeline.
* Integrated the client with external services and **APIs** for payment processing, shipping logistics, inventory management, and customer relationship management (**CRM).**
* Implemented the application using **Spring IOC, Spring MVC Framework, Spring Batch, Spring Boot, and Spring Web MVC** and handled the security using **Spring Security.**
* Worked on the new payment schemes for global payment processing, involved in design, sizing, and architect activities.
* Created Xits for the Payment page for the integration with multiple channels Web, Mobile, POS, KIOSK etc.
* Led a team of developers in building a serverless e-commerce API using **Node.js, Vue.js**, **TypeScript**, and **AWS Lambda** for product management, order processing, and secure payment integration.
* **Single** **Sign** **On** (**SSO**) authentication is implemented using **Spring** **security** and **Site** **Minder** so that user can sign into **single** **site** and browser will **sign** automatically to another **cross** **domain**.
* Implemented **OAUTH 2** (**Rest** **service** **authentication**) in our application to communicate securely with other protected resources by exchanging **access** **tokens** for **authentication** instead of using username and passwords.
* **OAUTH 2.0**authentication framework is used to provide **security** to **Restful** **web** **services** by generating **access** **token** to access protected resources.
* Developed a cloud-native e-commerce platform using Java, Spring Boot, and Oracle WebLogic Server on OCI.
* Implemented microservices architecture with Oracle Kubernetes Engine on **OCI** for scalable and independent services.
* Developed **RESTful API** for assessment indicators module and token-based authentication for **RESTful** services using **Spring Security.**
* **Developed and deployed Java applications** on Oracle WebLogic Server for OCI, ensuring high availability and scalability.
* Developed enterprise applications using Java and utilized Camunda BPM platform for business process management.
* Optimized the performance by leveraging **Java 17's** improved garbage collection mechanisms.
* Implemented serverless functions using AWS Lambda to handle user authentication and authorization, ensuring secure access control.
* Utilized **Redis** Pub/Sub messaging system for real-time communication and event-driven architectures.
* Utilized **Python** for scripting and automation tasks, streamlining processes and improving operational efficiency.
* Integrated **Splunk** and **Grafana** for monitoring and visualization of application logs and metrics.
* Designed and implemented BPMN workflows in **Camunda** for various business processes.
* Guided the team in leveraging TypeScript for strong type safety and code maintainability, reducing development time and potential errors.
* Storage, Azure SQL Database, and Azure Cosmos DB for building scalable and resilient applications.
* Developed and deployed a real-time chat application using Node.js, web sockets, and a NoSQL database, enabling efficient communication for a team.
* Execute conversion using **Mainframe** technologies.
* Leveraged **SignalFx, New Relic** integrations with cloud providers (**AWS**) and other monitoring tools to create a holistic view of application performance across the entire infrastructure.
* Implement **logging, monitoring,** and **alerting** mechanisms to track application performance metrics, detect errors, and troubleshoot issues proactively. Used **Grafana**, to monitor system health and diagnose problems.
* Designed and developed **RESTful** Services to retrieving configuration **JSON** documents related to customer Implemented Persistence layer using **Hibernate** to interact with the **Oracle** database, Used **Hibernate Framework** for **object relational mapping** and **persistence.**
* Integrated Redis with Java applications using **Jedis** to facilitate seamless communication between the application and the Redis server.
* Integrated **Apache Flink** seamlessly with **Apache Kafka** and other data sources in Java, facilitating reliable ingestion and processing of streaming data from various sources.
* Implemented and tested the enterprise application with **jQuery, Angular 12** and **Spring Boot**. Used **Jersey** to implement **Restful Web Service** and used **XML** form to transfer the data.
* Developed the application using **J2EE Design Patterns** like Business **Delegate, Factory, Singleton, Session Facade, Service Locator**and**DAO.**
* Developed front-end management features for the **Ruby on Rails**-based website. This involved view, controller, and model development as well as **CSS** and **JavaScript**.
* Developed **Python**-based data analysis tools to extract actionable insights from e-commerce data, contributing to strategic decision-making.
* Developed custom **Splunk** queries and dashboards to monitor application performance, identify errors, and troubleshoot issues in real-time.
* Worked and involved in deployment of core platform technologies, techniques, and web app frameworks such as **spring**, **JBOSS, Tomcat, JSON, XML, HTML5,** and Web Services.
* Extensively worked on **Responsive Web Design (RWD)** page development **using HTML5, CSS3, jQuery, JavaScript, AngularJS, and JSON.**
* Developing high-quality Web applications while improving and maintaining an existing MVC code base in **Ruby on Rails.**
* Involved in working with technologies like Spring Framework, Camunda BPMN, Hibernate and Restful Web Services in designing and development of the application.
* Utilized **Java 1.8** features like **Lambda** expressions and Stream API for Bulk data operations on **Collections** which would increase the performance of the Application.
* Deployed and Monitored **Microservices** Using Pivotal Cloud Foundry, also Managed Domains and Routes with the Cloud Foundry.
* Designed, Configured, and deployed **Amazon Web Services (AWS)** for a multitude of applications utilizing the **Amazon cloud formation.**
* Used **Node JS** for server-side development, including handling I/O operations and creating scalable, high-performance applications.
* Used Camunda REST API’s Cockpit and JAVA APIs to communicate with Camunda engine.
* Experienced in setting up **Amazon** **EC2** instances, virtual private cloud (VPCs), and security groups. Setting up databases in **AWS** using **RDS**, storage using **S3** bucket and configuring instance backups to **S3** bucket.
* Worked on **google cloud platform (GCP)** services like compute engine, cloud load balancing, cloud storage, cloud SQL, stack driver monitoring and cloud deployment manager.
* Setup **GCP** Firewall rules to allow or deny traffic to and from the VM's instances based on specified configuration and used **GCP cloud CDN** (content delivery network) to deliver content from GCP cache locations drastically improving user experience and latency.
* ⁠Build servers using **GCP,** importing volumes, launching **EC2, RDS**, creating security groups, auto-scaling, load balancers (ELBs) in the defined virtual private connection.
* Worked in **EC2, S3, Cloud Formation, Cloud Front, RDS, VPC, Cloud watch, IAM Roles/Policies, SNS** subscription service. Provision **AWS** resources using management console as well as **Command Line Interface**.
* Used **Node JS** to run the application in a web server in a staging environment. Debug the application using Firebug to traverse the documents and manipulate the Nodes using **DOM** and **DOM Functions**. Implemented latest **CSS** features of CSS like **Flexbox and Grid** for layout design and made sure that the pages are responsive for different form factors.
* Developed hibernate ORM mappings using Hibernate and JPA annotations to map java classes to database tables. Developed Java and EJB in **Mainframe** DB2 environment.
* Integrated Azure Storage services (Blob Storage, Cosmos DB) and Azure SQL Database/PostgreSQL to efficiently manage data in Java applications.
* Consumed RESTFUL web services using **Angular HTTP** Module and transformed the response using **RXJS** operators. Defined **Angular routes** using module for components at the module level to enable lazy loading for modules and components.
* Involved in Developing a **Restful API'S** service using **Python** Flask framework. Generated **Python Django** forms for online users data records and used **PyTest** for writing Text Cases.
* Worked on POC for Deploying the **AWS** infrastructure using **Terraform & CloudFormation** created and configured Redshift Cluster for data-warehousing responsible for Security, included opening different ports on security groups and Network ACL
* Designed, developed, and deployed Java-based real-time streaming applications using **Apache Flink**, leveraging its **DataStream API** for seamless event processing.
* Developed **Python** scripts for data analysis, reporting, and process automation, improving operational efficiency
* Worked on **Apache Camel, RabbitMQ** for sending messages over queue. Used **Java Messaging Service (JMS)** for messaging, configured queues and topics on the WebLogic application server and used them for messaging. Used **Spark (Scala)** for analyzing data and transforming.
* Worked on loading **CSV/TXT/AVRO/PARQUET** files using **Scala/Java** language in **Spark** Framework and process the data by creating **Spark Data frame** and RDD and save the file in parquet format in HDFS to load into fact table using ORC Reader.
* ⁠Implemented **Spark-SQL** with various data sources like JSON, Parquet, ORC and Hive. Extensively used **Zookeeper** as a backup server and job scheduled for **Spark Jobs**.
* Deployed the Application into **Docker** container and made easily accessible at runtime using Cloud Foundry and other cloud services like **AWS**. Created the **Docker containers** and **Docker consoles** for managing the application life cycle.
* Developed code in Java, J2EE and Hibernate using XP Practices **Pair Programming**, **TDD**, and **Continuous Integration**. Initiated the use of **Liquibase** in the organization which helped solve numerous database development and deployment problems.
* Developed **Liquibase scripts** to maintain database schema changes. Add unit or integrations tests using **Liquibase**.
* Used **Rest Controllers** to replace the existing **operations layer**, which acts as bridge between **business layer** and the **UI**.
* Used **Jenkins** as build management tool for continuous integration process.
* Involved in set up of **SonarQube** for code quality control and documented how to **Liquibase** is useful for the source of control of database. Implemented **Liquibase** for existing project.
* Prepared **Junit** test cases using **Mockito** and **Power Mockito** and executed the test cases using JUnit.
* Experience in setting up and managing light weight **Kubernetes** K3s for self-healing and high availability.
* Integrated Bitbucket with **Jenkins** a **CI/CD** tool, streamlining the build and deployment processes for automated and efficient development workflows. Unstructured data was handled using **MongoDB** and **Mongoose Connector** for connecting to the db.
* Involved in writing **SQL queries, PL/SQL** stored procedures for the database and backend tasks. Worked on **MongoDB** database concepts such as locking, transactions, indexes, replication, schema design, etc.
* Worked with **Cassandra Node Connector** for database persistence to interact with **Cassandra NoSQL DB** with **Spring Data** to unify and ease the access to **Cassandra** persistence stores.
* Integrated **AWS** **DynamoDB** for efficient storage and retrieval of data, ensuring high performance and scalability.
* Developed and performed test cases using **Jest** and **Mocha** for front-end unit testing and used the **Cucumber, Protractor** and **Http-server** for the End 2 End testing.

**ENVIRONMENT**: Java1.8, Lambda, J2EE, HTML5, CSS3, Java Script, jQuery, AJAX, AngularJS, Bootstrap, JSON, JSP, AWS, Microservices, RabbitMQ, Spring AOP, Hibernate, Spring Cloud, Spring MVC, Spring JDBC, JDBC, Web-Services, SOA, REST, JAX-RS, Jersey, JUnit, JAX-B, WebSphere, JIRA, Maven, GIT, AWS, GCP, SQL, NoSQL, Jenkins.

**Client: PNC Bank, Charlotte, NC Feb 2020 – Apr 2022**

**Role: Sr. Full Stack Java Developer**

**Responsibilities:**

* Involved in various phases of the Software Development Life Cycle **(SDLC)**.
* Implementing robust security measures and protocols to protect sensitive financial data, ensuring compliance with industry regulations such as **PCI DSS** (Payment Card Industry Data Security Standard) and **GDPR** (General Data Protection Regulation).
* Integrating banking systems with external **APIs** and services. Implementing security measures and protocols to ensure the safety of sensitive financial data.
* Experienced in **Security-System development** for Web Applications. Involved and developed all phases of security implementation using spring security system against modes of authentications: **LDAP authentication, Database authentication** and **Pre-Authentication.**
* Used Spring framework features like **Spring IOC, Spring MVC, and Spring Batch**. Created **POJO** classes, **Spring config.** files to use dependency injection. Used **Hibernate** in data access layer to access and update information in database.
* Developed **RESTful web services** using Jersey, Spring framework and JAX-RS. Used **J2EE design patterns** like MVC, Singleton, Factory, DAO, DTO and Service Locator etc.
* Developed **Spring Boot** Microservices with microservice architecture using **REST and Apache Kafka**. Used **Spring Core** for dependency injection/inversion of control (IOC) and integrated with Hibernate.
* Responsible for creating efficient design and developing User Interaction screens using **HTML, CSS, JavaScript, jQuery, AJAX, and JSON**.
* Designed and implemented **Grafana** dashboards to visualize key performance indicators (KPIs) and trends, providing actionable insights to stakeholders
* Integrated **AWS** **CloudWatch** for monitoring and logging, ensuring the reliability and performance of applications.
* Developed dynamic emails using **JavaScript**, and hand coding of **HTML5, XHTML**. Created Dashboards using **Java and Servlets** along with **HTML and JavaScript**.
* Involved in writing different Design Patterns like Filter, Action, Business Delegate, Service Locator, Data Transfer Objects (DTOs) and Data Access Objects (DAOs).
* Implemented **AWS solutions** using **E2C, S3, RDS, EBS, Elastic Load Balancer, Auto scaling groups, Optimized volumes,** and **EC2** instances and created monitors, alarms, and notifications for **EC2** hosts using **Cloud Watch**.
* Led the development of **ReactJS** components using NPM, including Forms, Events, Keys, Router, Animations, and Flux concepts.
* Responsible for modifying and extending open-source applications like **Ruby** and **jRuby**. Responsible for **Saas** platform with a **Ruby on Rails / MySQL** technology stack.
* Implemented asynchronous processing using GCP Cloud Tasks, improving overall application responsiveness.
* Implemented client-side interfaces using **ReactJS**, Redux for SPA development, and ReactJS-router for routing components. Built isomorphic applications using **ReactJS and Redux** with **GraphQL** on the server-side.
* Configured and managed various AWS Services, including **EC2, RDS, VPC, S3, Glacier, CloudWatch, CloudFront, Route53, SQS, SNS, etc**.
* Implemented 'server less' architecture using **API Gateway, Lambda, and DynamoDB** and deployed **AWS Lambda code** from **Amazon S3 buckets**.
* Led the migration of legacy systems to modern architectures, leveraging **Python** for scripting and automation tasks.
* Integrated **Express.js, Vue.js** framework to handle the views, requests, routing, and organizing of the web application into an MVC architecture on a **Node js server**.
* Collaborated with DevOps team to automate data collection and dashboard updates using **Splunk** REST API and **Grafana** plugins.
* Extensive knowledge of application using **Microsoft Azure** as cloud technology. ⁠Experienced with **Spark Context, Spark-SQL**, Data Frame, Datasets, Spark YARN.
* Responsible for implementing Map Reduce programs into **Spark** transformations using **Spark and Scala.** Getting real time data using Kafka and processing using **Spark and Scala**. Used **Spark (Scala)** for analyzing data and transforming. Configured **Azure** Active Directory and managed users and groups.
* Configured **Express.js** to set up middle-wares to respond to HTTP requests and created **RESTful API** with **Node js.**
* Deployed **Docker** contained Spring Boot microservices into **Spring EC2 container service** using **AWS admin console.**
* Integrated **Flink** applications into the **CI/CD** pipeline, enabling automated builds, testing and deployment processes. Worked with building **Docker Images** and running them on Docker containers.
* Identified reusable components in all modules and written re-usable functions using **Selenium WebDriver** and **Java/JavaScript**.
* Used **Jenkins** as the integration tool and improved scalability of applications on cross-platforms.
* Extensive knowledge of application using **Microsoft Azure** as cloud technology. Used **Spark (Scala)** for analyzing data and transforming. Configured **Azure** Active Directory and managed users and groups
* Used App services, **SQL database, AZURE storage accounts, Blobs, Functions, triggers, and Azure Key Vaults** to create application.
* Involved in requirements gathering and Capacity planning for Multi-Datacenter (four) and **Cassandra** Cluster Used **Oracle DB** and **MongoDB** for Database related activities.
* Good understanding of **IAAS, PAAS and SAAS, Azure SQL, AZURE Data Lake**.
* Worked on database packages, procedures, and functions in **PL/SQL** to code the background processes involved in the application. Developed and Modified **tables, views, Triggers, stored procedures,** and **packages.**
* Developed **stored procedures,** and **triggers** in **Oracle** for lowering traffic between servers & clients. Extensively worked on **Oracle** for writing complex queries in the business logic layer.
* Using **JUnit** test in **Eclipse**, developed Unit test cases and test suite.
* Used **Maven** for build and deployment to **Tomcat server** and **Splunk** as log monitoring.
* Used **Git** for version control and **JIRA** for bug tracking and project management.

**Environment:** Java, J2EE, Spring, Spring Boot, Spring Core, Spring IOC, Spring MVC, Spring Batch, Hibernate, AWS, Docker, ReactJS, Redux, HTML, CSS, XML, Restful, JavaScript, Selenium, Apache Kafka, Tomcat, Maven, Splunk, Jenkins, Junit, Eclipse, Git, Jira

**Client: American Airlines, Dallas, Texas Jan 2019 – Dec 2019**

**Role: Full Stack Java Developer**

**Responsibilities:**

* **Developed** the application using **Java 11** and implemented its features like lambdas Expressions, Time API, Streams, functional interfaces, collectors, default methods, type interfaces, for each.
* Build software modules for crew rostering, scheduling, and assignment management. Develop Java applications to handle crew qualifications, duty time regulations, flight crew pairing optimization, and real-time crew tracking.
* Developed **CRM** solutions to manage customer interactions, loyalty programs, and personalized services. Used **Apache Camel** and **Spring Integration** to integrate **CRM** systems with reservation and ticketing platforms.
* Used **Spring Framework** for dependency injection for Action classes using Application Context XML file.
* Developing **Spring Boot** based **Micro Services** using the annotations & implementing architecture patterns, used **Spring Rest/JSON** to expose **Microservices APIs.**
* Used **Spring Boot** to create **RESTful Web Services**, sending and consuming JSON data. Responsible for developing the sequential and conditional batch jobs using the **Spring Batch** framework.
* Enhanced legacy application by building new components in **Angular** and **typescript**. Created **Typescript** reusable components and services to consume **REST** **APIs** using **Component**-**based** architecture provided by **Angular**.
* **Angular guards**were used for authentication to tell the router whether it should allow navigation to requested resource.
* Defined new validations through **AngularJS** for the form field validation implemented through **HTML5**.
* Implemented persistence layer using **Hibernate** that uses the **POJOs** to represent the persistence database tuples.
* Implemented **Hibernate** to map all the tables from different data sources to make database updating.
* Worked on **Amazon Web Services** (EC2, S3, DynamoDB, RDS, Elastic Load Balancing, SQS, SNS, IAM, Cloud Watch, EBS), using the Elasticsearch APIs (Document, Search, Indices, Cluster, etc.), High Availability Practices and deploying backup/restore infrastructure.
* Deployed service APIs on **AWS EC2** for integration testing. Utilized **AWS Elastic Beanstalk** for automatic scaling testing.
* Created **Lambda Deployment function** and configured it to receive events from your **S3 bucket**. Automated the **Docker image** creation and deployments (writing Docker files, creating images and containers) using Jenkins.
* Created the **Docker containers** and **Docker consoles** for managing the application life cycle.
* Developed **Message Driven Bean** for asynchronous sending Messages using **JMS**. Utilized **Apache Kafka** to establishing proper communication protocol between service peers and service management system.
* Used **Cucumber** to execute automated acceptance tests based on **BDD**.
* Implemented communication authentication using **Spring Security and OAuth.** Used **Log4J** for application logging and notification tracing mechanisms.
* Expertise in asynchronous programming using callbacks, promises, or async/await in **NodeJS** and managed non-blocking operations effectively
* Implemented **JUnit** test cases for unit testing and Suites for end-to-end testing. Used **Jenkins** as build management tool for continuous integration process and used **Git** as Version Control tool.
* Worked on design and development of **RESTful (JAX-RS)** web services for other applications to communicate and tested web services using **SOAP UI** and REST Client.
* Worked with **MongoDB** to store non-relational data into collection and retrieve them whenever required. Wrote **SQL queries** and stored procedures to interact with the DB.

**ENVIRONMENT:** Java 11, Spring, Spring Boot, Spring Batch, Spring MVC, Spring Security, Hibernate, AWS, Docker, MVC, Micro Services, Eclipse, Jenkins, Git, OAuth, HTML5, CSS3, JavaScript, Angular JS, DOM, JMS, AJAX, EJB, Log4j, JUnit, SQL, PL/SQL, MongoDB, Agile and Windows

**Client: Medtronic Health Care, Minneapolis, MN Sept 2016 – Oct 2018**

**Role: Java Full Stack Developer**

**Responsibilities:**

* Maintained **EHR** systems to store, manage, and retrieve patient health information securely.
* Created reusable typescript components and services to consume **REST API's** using Component based architecture provided by Angular.
* Involved in various phases of the Software Development Life Cycle (SDLC) of the application like requirement gathering, Analysis, Design, and implementation using Agile/Scrum methodologies.
* Developed application using Java/J2EE technologies, **Spring,** **Spring Security, AOP, IOC.**
* Developed REST Web services to make web service calls simple and easy for the client to access it with the help of standard **HTTP URIs**.
* Used **Spring IOC** for dynamic bean injection and **Spring AOP** to modularize cross-cutting concerns in aspects.
* Used **Microservice** architecture with **Spring Boot based** services interacting through the powerful messaging tools such as **REST**.
* Developed presentation layers using **Bootstrap**, **HTML5**, **CSS3** and other useful libraries to build single page application.
* Involved in writing multiple **Spring Boot** based micro services as **REST** API’s & integrated the flow between the API’s using messaging technologies like **Kafka** and **IBMMQ**.
* Created **Kafka Topics**, **Consumer Groups& Producers.** Consumed messages from Topics using spring messaging.
* Experience in **Java 8 Lambda** expressions along with Streams for creating internal iteration and performing chain operations such as **Filter, Map, collect** on a collection Objects.
* Developed the various feature of the application using front end technologies like **Backbone JS** and **React Js.**
* Used **React JS** to create views to hook up models to the **DOM** and synchronize data with the server as a **Single Page Application** (SPA).
* Worked on **React JS Virtual Dom** and React views, rendering using components which contains additional components called custom **HTML** tags.
* Developed user interface by using **React JS, Flux** for SPA development, also used React forms for data driven form components and **React router** to define module level routing.
* Experience in working with various databases like Oracle, PostgreSQL, MS SQL Server and strong knowledge in **SQL, PL/SQL, Stored Procedures, Functions, Triggers** and **Cursors**.
* Expertise in Version Control system like **GIT, GITHUB, SVN.** Used Jenkin jobs for **CI/CD** Pipeline.
* Used **Maven, Gradle** build tools to automate the process of generating **Docker files,** building **Docker Images,** and pushing them to **Docker Private Registry.**
* Worked on developing a **RESTful API** using **Spring Boot** framework. Developed different controllers that return the response both in **JSON and XML** based on the request type.
* Main development also involves working with **Service Oriented Architecture** applications with reporting services utilizing **JMS**.
* Experience in developing Database Components like writing **functions, packages, procedures, triggers,** and **views** in **PL/SQL.**
* Developed customized **SQL** for retrieving the data from the database worked with business and client to reach the performance parameters & also developed few **Stored Procedures & triggers** to save and get the information to/from Database.
* Excellent in deploying the applications in **AWS** as **EC2** instances and create snapshots for the data that must be stored in **AWS S3**.
* Utilized **Amazon** Web **Services** (**AWS**) **EC2** to deploy **Docker** containers.
* Created **AWS Lambda** using java to perform event driven processing.
* Experience in **JIRA** for **bug tracking** and **pull requests, Confluence** where collaborate and shares important info and management and **GIT** control source control. Implementing **JIRA, Agile** and **Confluence** best practices.
* Developed **ATDD** framework for all the services with the help of **cucumber** framework.

**Environment:** HTML5, CSS3, Sass, Typescript, Node.js, Express.js, React.JS, Vue.js, Gulp, JavaScript, JQuery2.x, Bootstrap, JMS, SQL, MongoDB, AWS, GIT, Jasmine, Jenkins, JUnit, Docker, Log4j, Apache Tomcat 8.x, Scrum, Agile**.**

**Client: Meijer, Grand Rapids, MI Dec 2015 – Sept 2016**

**Role: Software Engineer**

**Responsibilities:**

* Involved in **SDLC** Requirements gathering, Analysis, Design, Development and Testing of application using **AGILE methodology.**
* Developed the application using Core Java, **Multi-threading, Spring MVC, Spring Boot, Oracle, J2EE, Hibernate, Web Services**including **SOAP**and **REST.**
* Utilized **spring annotations** and **XML** configuration for **Dependency Injection**.
* Extensively used **spring dependency injection** for the maven project and utilized various external libraries as part of development.
* Experience writing **angular.js** code for developing **Single page applications (SPA)**used several in built language core directives, expressions, and modules.
* Configured **JMS, EJB and Hibernate** on WebSphere Server.
* Extensive experience with **AngularJS**, creating custom directives, decorators, and services to interface with both restful and legacy network services also DOM applications.
* Worked on front-end technologies like **Angular.JS, HTML5, CSS3, JavaScript, jQuery, Ajax, JSP**and**JSF.**
* Involved in generating **Hibernate** Configurations files, hibernate mapping files and **Hibernate data Objects** to communicate data in persistence layer.
* Involved in creating new **swagger documentation** for new **API**, and modification of existing **APIswagger documentation.**
* Used **Maven** for project management and build automation and Continuous Integration are done using **Jenkins.**
* Responsible for handling configuration and administration of databases like **MySQL** and **NoSQL** databases like **MongoDB** and **Cassandra**.
* Involved in writing **SQL queries, PL/SQL** stored procedures for the database and backend tasks.
* Worked on **MongoDB** database concepts such as locking, transactions, indexes, replication, schema design, etc.
* Used agile practices and Automated Test-Development, using **selenium** and **cucumber,** techniques to provide reliable, working software early and often.
* Involved in **test-cases using Junit**, debugging Implementation and deployment activities.
* Used **Jenkins** for doing automated and manual builds, experience in deploying .WAR file of the application to higher environments and on multiple servers.
* Used **Log4j**logging frame works to address logging needs of the application.

**ENVIRONMENT:** Java 8, J2EE, Spring boot, Web Services, Spring Security, Spring MVC, Hibernate, PostgreSQL, SOAP, RESTful, XML, XSD, JSON, HTML5, CSS3, jQuery, Boot Strap, JavaScript, Log4j, JUnit, Maven, GIT, IntelliJ, AngularJS, Jenkins, Selenium Web Drivers, Cucumber.

**Client: CGI, Hyderabad, India DEC 2011 – JAN 2015**

**Role: Java Developer**

**Responsibilities:**

* Used **Spring Boot** framework with **Java** to implement **Micro services** Architecture with **JAX -RS** as a web service.
* Created new components in **ReactJS** and map them to the **JSON** files to display them on the page according to the customer specific type.
* Responsible for designing, coding, and developing the application in **J2EE** using **spring MVC.**
* Involved in designing and developing the **REST** based **Micro services** using **Spring Boot.**
* Used **Spring Boot** microservice architectural patterns to develop some standalone Micro services.
* Worked on the development of presentation layer and GUI framework in **JSP.** Client-Side validations were done using **JavaScript.**
* Developed an API to write **XML** documents from a database. Utilized **XML** and **XSL** Transformation for **dynamic web-content** and **database connectivity.**
* Responsible for coding **SQL Statements** and **Stored procedures** for back-end communication using **JDBC.**
* Generating Reports using Batch Process and UI developed using **jQuery.**
* Wrote Database objects like **Triggers, Stored procedures in SQL.**
* Created and designed User Interface for various modules using **JSP’S,** developed custom tags, and used **JSTL Tag lib**.
* Used **Log4J** for debugging the application.
* Designed and implemented application using **Spring MVC, Spring IOC, Spring AOP, Spring Transactions Management, Hibernate**
* Deployed an application in **WebLogic** application server.
* Written **JavaScript** for front-end validation. Participated in Unit testing and System testing

**ENVIRONMENT:** Java, Servlet, JSP, JSTL, Log4j, Ant, XML, SQL Server 2000, Tomcat, JavaScript, ReactJS, Eclipse.