**AALEKHYA MARELLA**

[aalekhya.developer@gmail.com](mailto:aalekhya.developer@gmail.com) **(469)573-1896**

[**https://www.linkedin.com/in/aalekhya-marella/**](https://www.linkedin.com/in/aalekhya-marella/)

**CAREER SUMMARY:**

* Over 8 years of experience as a Java Full Stack Developer in IT industry. Extensively experienced in Software Analysis, Design, Development, Implementation and Testing of Object Oriented Applications and Web based Enterprise Applications using java/J2EE.
* Experience in working in environments using Agile (SCRUM) and Test Driven Development (TDD) development methodologies.
* Proficient in UI design, developed Front End using JSP, HTML5,CSS3, JavaScript,Ajax, JQuery,AngularJS,Angular,NodeJs,and ReactJs.
* Hands on experiences with Core Java with Multithreading, Concurrency, File Handling I/O, Generics, Data Structures and Collections, Garbage Collection.
* Experience in java8 features like Parallel Streams, Lambdas, functional interfaces and filters.
* Experience in developing Microservices using Spring-Boot.
* Experience in development and deployment of applications using JBoss, Web Logic Application Server, IBM WebSphere Application and Apache Tomcat.
* Experienced in developing Restful Services using JAX-RS specification like Jersey and Rest Easy to implement REST based Application.
* Experience in using Socket Programming.
* Experience in using bug/issue tracking, project Tracking and Management tool JIRA.
* Experience working on Web Services SOAP & REST, JAX-WS, JAXB, WSDL and UDDI registry.
* Expertise in implementing Service Oriented Architectures (SOA) using XML based Web Service such as SOAP, UDDI and WSDL.
* Experience with Cloud Computing Service environment like (AWS) Amazon Web Services (EC2,

EBS, S3 and ELASTIC SEARCH).

* Involved in designed fully distributed system with the use of Restful API and Micro Services.
* Complete understanding of the DevOps process with continuous integration using Jenkins, JIRA, GIT, and CHEF.
* Expertise in developing model components using ORM technologies likeHibernate
* Have developed the micro services framework prototype with guidelines, the developers have followed as skeleton model and developed their interfaces on top of the baseline prototype.
* Good experience in J2EE Testing in developing test cases with JUnit, MOCKITO for Unit testing, and logging using Log4j.
* Good Experience in Mock Testing.
* Experienced with RDBMS implementation and development using Oracle, My SQL, MSSQL and DB2.
* Expertise in database modeling and development using No SQL Database such as MongoDB and Cassandra.

**TECHNICAL SKILLS:**

**Programming Languages**: C, Java, SQL, PLSQL, Socket Programming, Python

**ScriptingLanguages:** XML,XHTML,HTML,CSS,JavaScript,AJAX,jQuery,JSON,Angular2.0,Bootstrap,NodesJS,backboneJS,reactJS.

**Frameworks:**   Struts, Spring, JSF, JPA, EJB and Hibernate, iBatis, JMS, Junit, Selenium web Driver, TestNG, Protractor, and Mockito.

**Web Services:** SOAP, UDDI, WSDL, JAX-RS, JAX-WS, RESTful Web services, AWS,Microservices.

**Databases:** Oracle 11g, MySQL, PostgreSQL, DB2, MongoDB, Cassandra

**Debugging Tools& CI/CD:** JIRA, Jenkins, and CHEFF.

**Version Control:** Git, Tortoise SVN, CVS.

**IDE Tools:** Eclipse, Net beans, IntelliJ, IBM RAD, ANT, Maven, STS

**Web/App/DB Servers:** IBM WebSphere, WebLogic, Apache Tomcat, JBoss.

**WORK EXPERIENCE:**

**Client: UPS, Parsippany, NJ Jan 2023 - Present**

**Full Stack Java Developer**

United Parcel Service in an American multinational package delivery and supply chain management company. Web Tracking is UPS.com application that allow users to track up to 25 1Z, Info notice, Mail Innovation, FGV, or UPS Freight shipment at one time. Users can also subscribe to pick up, exception and delivery notification through Web Tracking. Web tracking also provide My Choice customers with an entry point of action their packages. The Web Tracking code base also support payment for import COD online using local countries payment method.

**Responsibilities**:

* Developed the functionalities using Agile Scrum Methodology.
* Converting **J2EE** application to **RESTful micro services** architecture using **Spring Boot** and cloud technologies and containerizing individual services in Docker containers
* Used **SQL** to perform data mapping and backend testing, also documented all the SQL queries for future testing purpose.
* Strong experience on **DevOps** essential tools like **Kubernetes**, GIT, Jenkins, Ant, Mavenand deployed/managed applications to OpenShift and managed cloud services in **Azure**, **AWS** and OpenShift.
* Worked on configuration of auto scaling and elastic load balancer for scaling services, configuration of SNS to send notifications and Cloud Watch to collect logs and metrics.
* Used **React**-Autocomplete for creating google maps location search on the webpage.
* Created **Kafka** producers to stream data to topics from external **rest APIs**.
* Worked on AWS services to deploy static websites and dynamic Web Apps on EC2 using **Elastic Beanstalk** and **Elastic Container** Service-**Docker** and **Kubernetes**.
* Designed, coded and tested portfolio optimization system using **Drools Rules Engine** .SQL Queries.
* Used IntelliJ IDE for entire application development and GIT for version controlling.
* Designed and developed the REST based Microservices using the **Spring Boot,** Spring Data with JPA and used Swagger to interact with API end points of the micro services.
* Involved in the development of PL/SQL backend implementation and using SQL created Joins and complex statements.
* Review and understand the **Drools** business rules currently residing within the application, documenting them and then coding/converting them to human readable form.
* Developed a conical map/reduce-like architectural pattern that that is designed to leverage the **Azure** platform.
* UsedReduxFrameworkarchitecture(likeReducers,Containers,Saga)forintegratingthedatawith**React**.
* Worked as in software engineer with technologies like, HTML5, CSS3, **AZURE**, MONGODB, BOOTSTERAP, SOAP, AND CI/CD, FOR APPLICATION USING JENKINS and JU unites test.
* Worked with **container-**based application deployments using **Docker** with **Kubernetes.**
* Experience with Microservices & containerization using **Docker** and **Kubernetes.**
* Devised a Docker image with Kubernetes multi-cluster for Oracle Revenue Management and Billing **(ORMB)** with 60% gain.
* Designed and implemented business rules using **DROOLS** framework. This involved translating the business requirements and translating to rules and integrating rules engine with existing web application.
* Involved in responsive design and developed a single ISOMORPHIC responsive website that could be served to desktop, Tablets and mobile users using **React**.js and Redux.
* Used **Apache Kafka** for producing the change events from SQL and the Node JS programs to consume events as per the change events.
* Built multiple modules for cloud **integration of ORMB** platform offering market compliance pricing and billing product lifecycle.
* Wrote business rules using **Drools** and business logic processing customs declarations.
* Work in progress on POC to migrate to Windows **Azure** to address scalability and performance issues. Implemented high availability with **Azure** Classic and **Azure** Resource Manager deployment models.
* Used design patterns like Singleton, Data Access Objects, Factory and MVC patterns.
* Testing and production support of **core java** based multithreading ETL tool for distributed loading XML data into Oracle database using **JPA/Hibernate.**
* **Configured Kafka to read and write messages from external programs.**
* Implemented **ReactJS** code to handle cross browser compatibility issues in Mozilla, IE7,8,9,Safariand FF. Used Babel plugin tool for conversion of ES6 versions to support all type of browsers.
* Experience with JavaScript ES6 features- closures, hoisting, prototypes, block scoping, rest, spread, restructuring classes, promise, iterators, generators, aysnc, wait, maps and sets.
* Designing/Developing J2EE applications/POCs using Java , J2EE Technologies with **DROOLS**.
* Created POJO’s and DAO’s for the database entities using Spring JDBC annotation mappings

Examined and inspected **containers**,materials, and products to ensure that Packing specifications were met while working in a fast-paced environment to meet Deadlines for trailer departure.

* Integrated with Spring Cloud projects to provide distributed tracing and other features.
* Developed **micro services with spring** and tested the application using **Spring Boot.**

**Environment:** Eclipse, JDK 1.7, JSP, HTML, CSS,React, jQuery, JavaScript, Servlet 3.0, ANT 1.5, JDBC, REST, Maven, log4j, SLF4J, Junit, Azure, JMeter, WebLogic, ORMB, 12.2, Tomcat 9.0.31, Spring boot 2.1.3, OAuth 2.0, IBM MQ, Cucumber, JMeter, SonarQube, Swagger, OpenShift, ActiveMQ

**Client: Saks.com LLC, New York, Sept 2022 – Jan 2023**

**Software Engineer- Java**

This application is part of the Saks.com retail website used to calculate the shipping SLA and price based on the zip code, and the shipping type.

**Responsibilities:**

* Followed SDLC best practices with continuous integration using Jenkins, unit testing and regression testing.
* Create a new REST API using Spring Boot. Designed and developed application utilizing AWS Lambda, S3, Cloud front and NoSQL database Dynamo DB. Worked with setting up EC2 instances.
* Automate CI/CD pipelines, IAC using Terraform.
* Worked on **AWS cloud** services like EC2, S3, RDS, ELB, and EBS for installing, configuring and auto scaling.
* Designing and developed Micro Services using (MERN Stack) Mongo DB, Express JS, **React JS** and Node Js
* Built and deployed Docker **containers** to break up monolithic app into microservices, improving developer workflow, increasing scalability, and optimizing speed.
* Configured **Kafka** to read and write messages from external programs.
* Involved in developing **DevOps** pipeline using **Azure cloud** service and **Kubernetes** for microservices architecture.
* Developed unit test cases using Mocha and Chai as unit test runner to test various **React JS** components.
* Involved in writing **Java API** for **Amazon Lambda** to manage some of the **AWS** services.
* Wrote services to store and retrieve user data from DynamoDB for the application on devices.
* Spearheaded **ORMB** Ansible product migration to Oracle Cloud Platform, generating
* Created **Kafka** producers to stream data to topics from external rest APIs.
* Developed scalable solutions using NoSQL databases DynamoDB.
* Designed and developed the REST based Microservices using the Spring Boot, Spring Data with JPA and used Swagger to interact with API end points of the micro services.
* Worked on AWS cloud services like EC2, S3, RDS, ELB, and EBS for installing, configuring and auto scaling.
* Expertise in **CI/CD** tools like **Docker, Jenkins**, **Kubernetes** for **container** creation and managing
* Involved in writing Java API for Amazon Lambda to manage some of the AWS services.
* Implemented Micro Services based Cloud Architecture on Amazon Web Services (AWS) Platform and Cloud Foundry.

**Environment:**

IntelliJ, Java 8, REST, Gradle, log4j, Junit5, JMeter, React, spring boot, JMeter, SonarQube, Swagger, AWS,Dynamo Db, S3, Lambda, Azure, JIRA, GIT, Kotlin.

**Client: UPS, Parsippany, NJ March 2019 –Sept 2022**

**Full Stack Java Developer**

United Parcel Service in an American multinational package delivery and supply chain management company. Web Tracking is UPS.com application that allow users to track up to 25 1Z, Info notice, Mail Innovation, FGV, or UPS Freight shipment at one time. Users can also subscribe to pick up, exception and delivery notification through Web Tracking. Web tracking also provide My Choice customers with an entry point of action their packages. The Web Tracking code base also support payment for import COD online using local countries payment method.

**Responsibilities**:

* Developed the functionalities using Agile Scrum Methodology.
* Extensive experience in various agile methodologies like Test Driven Development (TDD).
* Involved in developing UI using Spring MVC framework, JSP, JSTL, HTML5, CSS, JavaScript, JQuery, AJAX and Angular.
* Created Reusable Modules and Custom Directives in Angular which got used in various places of application.
* Implemented Angular Controllers to maintain each view data. Implemented Angular Service calls using Angular Factory tested all application controllers extensively with Angular built-in testing facilities.
* Extensively used core java concepts like **Multithreading, Collections Framework, File I/o and concurrency.**
* Experience in Core Java concepts such as OOP Concepts, Collections Framework, and Exception Handling, I/O System, Multi-Threading, JDBC, Generics.
* Used **Java8** features in developing the code like Lambda expressions, creating resource classes, fetching documents from database.
* Used design patterns like Singleton, Data Access Objects, Factory and MVC patterns.
* Testing and production support of **core java** based multithreading ETL tool for distributed loading XML data into Oracle database using **JPA/Hibernate.**
* Examined and inspected **containers**, materials, and products to ensure that
* Packing specifications were met while working in a fast-paced environment to meet
* Deadlines for trailer departure.
* Created POJO’s and DAO’s for the database entities using Spring JDBC annotation mappings
* Integrated with Spring Cloud projects to provide distributed tracing and other features.
* Developed **micro services with spring** and tested the application using **Spring Boot.**
* Used **Spring Core** annotations for Spring Dependency Injection, **Spring MVC** for Rest API’s and **Spring Boot for micro services**.
* Development of cloud hosted web applications and **REST APIs using Spring Boot** with embedded **Tomcat.**
* Deployed the application on **Amazon Web services (AWS)** and used it to provide a large computing capacity for scalable solutions.
* Deployed applications into Continuous integration environments like **Jenkins** to integrate and deploy code on CI environments for development testing.
* Implemented Rest based web service using JAX-RS annotations, Jersey provider implementation.
* Integrated ActiveMQ and spring JMS API to send and receive message for the application’s restfulAPI.
* Wrote build scripts using Maven.
* Developed the persistence layer using **Hibernate Framework** and created DAO and POJO.
* Experience in NoSQL database like MongoDB installation, configuration and in designing MongoDB multi-shared cluster and monitoring with MMS.
* Experience in working with **NoSQL Database like MongoDB** to manage extremely large data sets.
* Used **log4j** to print the logging, debugging, warning, info statements.
* Implemented **Selenium Web Drivers and Protractor** for testing the UI components.
* Involved in setting up **Test automation and developed cucumber feature files**
* Used **JIRA** tool for Issue/bug tracking, monitoring of work assignment in the system.
* Experience on implementation of version control software **GIT** repositories.
* Integration and deployment of applications done using **Maven.** Automated the jobs to run daily using the Continuous Integration tool **Jenkins** and used **SonarQube** for code analysis

**Environment:** Eclipse, JDK 1.7, JSP, HTML, CSS, Angular, jQuery, JavaScript, Servlet 3.0, ANT 1.5, JDBC, REST, Maven, log4j, SLF4J, Junit, JMeter, WebLogic 12.2, Tomcat 9.0.31, Spring boot 2.1.3, OAuth 2.0, IBM MQ, Cucumber, JMeter, SonarQube, Swagger, OpenShift,ActiveMQ

**Client: CVS HEALTH, Woonsocket, RI August 2016-March 2019**

**Full Stack Java Developer**

This application is used to configure the KIOSK device in the minute clinic stores. It manages all KIOSK related operations like Patient check in, Scheduling Visits, Hold My PlaceInLine, and Wait Time etc.

Clinic Admin Tool is a web application used for configuring and managing all the Minute Clinic clinics like the General Information, Hours of Operation, Online Queuing, and the Clinic Status.

**Responsibilities**:

* Involved in gathering and analyzing system requirements and converting them into technical specifications using **UML**.
* Worked with Business Analyst and helped represent the business domain details in **technical specifications**.
* Coding and integration testing for the transformation service, offshore coordination and technical lead to the offshore team
* **Used Apache Kafka for producing the change events from SQL and the Node JS programs to consume events as per the change events.**
* Evaluated the site against **WCAG** guidelines for Ajax-based accessibility and advanced its compliance including landmark roles.
* Developed application on **Spring MVC** utilizing validation, annotation and forms.
* Developed User Interface using **Angular**, **HTML5**, **and CSS3.**
* Implemented different design pattern like **singleton**, **factory**, and J2EE design pattern like Business **session**, **facade**, **and delegate** and **DAO design patterns.**
* Used **Hibernate Query Language** (HQL) to query the database for complex data.
* Involved in creating and Deployment of REST API and **Micro service** in **Java** J2EE using **Springbok**.
* Extensively used **Spring IOC, Spring Boot**, **AOP** concepts and used **Spring MVC framework** to develop the application.
* Implemented Authentication using **OAuth2** and JSON Web Token (**JWT**).
* Implemented AWS solutions using **EC2**, **S3**, **RDS**, **and Code Pipeline**.
* Examined and inspected **containers**, materials, and products to ensure that
* Packing specifications were met while working in a fast-paced environment to meet
* Deadlines for trailer departure.
* Developed services using **Spring IOC** and Hibernate persistence layer with **Oracle 11g** Database**.**
* Involved in implementing business logic with Oracle-stored procedures, functions and triggers using **PL/SQL.**
* Performed Data driven automation testing using SQL, JDBC connection and **selenium WebDriver.**
* Deployed the project in **Tomcat server** and use **Maven** tool for building the application.
* Wrote **Jasmine** unit tests using **Karma**.
* Used **JIRA** for bug and issue tracking and Used **Git** as version control.

**Environment:** JDBC, Servlets, JSP, Spring MVC, Spring Boot RESTful Web Services, MAVEN, XML, HTML5, CSS3, JavaScript, jQuery, Angular JS, Hibernate, Oracle, WebLogic 12.1, Log4j, Jasmine, Karma, Eclipse, Selenium, Microservice, WCAG guideline .

**Wipro, HYDERABAD, INDIA Jan 13 – July 2015**

**ROLE: JAVA/UI DEVELOPER**

**Description**: Provided ideas, Designed, and implemented java-based application

**Platform**: JavaScript, CVS, J2EE, Servlets, JSP, HTML, SQL, Java, JQuery, JAX-RS

**Responsibilities**:

* Analyzed business requirements, participated in technical design, development of various modules assigned
* Developed and designed User Interface Screens using JSP, JavaScript, HTML5
* Extensively worked with J2EE using Servlets and JSP in Eclipse IDE
* Developed JSPs for service management and user management modules
* Worked extensively on spring boot for building web services. Responsible for creating and maintaining Restful API using Spring Boot
* Designed and developed Struts Action Classes and Views using JSP, Strut’s tag libraries and JSTL
* Involved in writing tables in Universal Database and integrated with database developers for using stored procedures in this application
* Expertise in developing business applications using EJB implementing session beans for business logic, Entity bean for persistence logic and Message driven beans for asynchronous messaging communication. Implemented spring data for business logic
* Used and developed PL/SQL triggers and master tables for automatic creating of primary keys
* Mapped hibernate hbm and implemented spring configuration setup.
* Used JavaScript to update a portion of a web page thus reducing bandwidth usage and load time in web pages to get user input and request
* Coded JavaScript for page functionality and Pop-up Screens and used HTML to make dropdown menus on web pages and display part of web page upon user request
* Involved in writing and optimizing SQL Queries, and Stored Procedures
* Prepared the documentation for the entire process for future reference
* Involved in migrating data from data warehouses on Oracle/DB2 to Teradata
* Build and deployed enterprise Java EE applications using WebLogic server
* Involved in dealing with production bugs and interacted and updated the status to the business owner
* Involved in writing test scripts using java and executed it through selenium cucumber

**Environment:** Java, HTML5, Angular JS, jQuery, JavaScript, Ajax, Web Services REST JAX-RS, Servlets, Java Bean, JDBC, CSS3, XML, ANT, Eclipse, GIT, Spring Framework, Selenium, Hibernate, Oracle database.

**Education:**

**University of Houston – Clear Lake, Houston, Texas**

Master of Science in Computer Science

**Jawaharlal Nehru Technological University, Hyderabad, India**

Bachelor of Technology in Computer Science and Engineering