**Uma Allu   
Java Full Stack Developer**

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**Professional Summary:**

* About **10+** years of experience in **SDLC** concepts like planning, requirements gathering, design, development, testing, maintenance and implementing web-based client/server applications using **Java** and **J2EE** Technologies.
* Experienced on **Java 8,11** concepts like **lambda expressions, HTTP Client API, Multi-Threading, OOPS concepts** to design and deploy various applications.
* Experienced in creating use cases, class diagrams, sequence diagrams, and collaboration diagrams for multi-tiered, object-oriented system architectures using the **Unified Modeling Language** (UML).
* Worked on Spring framework components such as **Spring Boot, Spring MVC, Spring DAO**, and **Spring AOP.**
* Proficient in developing web-based User Interface with the help of **Angular 9,10,11, Node.js, React JS, HTML, CSS, JavaScript,** and **jQuery**.
* Efficient in working with **GIT** version control and build tools like **Maven, Gradle** and **ANT** for managing dependencies and deploying the applications.
* Experienced working with cloud environments like **AWS** and **Azure** using **EC2 instances, S3 buckets, EKS, Virtual Machines, Repos, Log analytics, Kubernetes, Docker,** and **Jenkins**.
* Experienced in creating and implementing databases utilizing a variety of RDBMS, including **Oracle, PostgreSQL, Cosmos DB, MySQL, Maria DB, MongoDB and SQL Server.**
* Experienced in ApacheKafka.., **ActiveMQ** and **RabbitMQ** for interservice communication across multiple services.
* Proficient in working with log frameworks like **Log4j, Slf4j, Logback** for log aggregation, log analysis and log dashboard.
* Worked with monitoring tools like **CloudWatch** and **Splunk** for storing and extracting logs for each search, reports, dashboard, and alerts.

**Technical Skills:**

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| --- | --- |
| **Programming Languages** | Java, JavaScript ,C++, PL/SQL, Python, ,Kotlin |
| **Software Methodologies** | Agile/Scrum, Software Development Life Cycle (SDLC), Test Driven Development (TDD) |
| **J2EE Technologies & Frameworks** | JSP, servlets, Java Database Connectivity (JDBC), Java Beans, Java Security, JAX-RS, JAX-WS |
| **Web Technologies** | HTML, AJAX, Bootstrap, JavaScript, jQuery, JSON, NodeJS, Angular, React, CSS, XML |
| **Frameworks** | Spring, Spring Boot, Spring MVC, Spring Security, Spring IOC, Spring AOP, JUnit, Struts, Spring Batch |
| **Web Services** | SOAP, RESTful |
| **Databases** | Oracle, SQL Server, MYSQL, MongoDB, DynamoDB, PostgreSQL, Cassandra |
| **Design Patterns** | Singleton, factory method, MVC, Data Transfer Object, Data Access Object |
| **Build Tools** | Maven, Gradle, Jenkins |
| **Testing Tools** | JUnit, Putty, Splunk, Mockito, SOAP UI, Postman, Selenium |
| **Operating Systems** | Windows, Linux |
| **Cloud Services** | AWS, PCF, Azure |
| **Messaging Platforms** | Apache Kafka, IBM MQ 8.0, JMS, Rabbit MQ |
| **Web/Application Servers** | Tomcat, WebLogic, IBM WebSphere, Apache HTTP Server, JBoss. |

**WORK EXPERIENCE:**

**Client: Safeway – San Diego, CA Nov 2021 – Present**

Role: Java Full Stack Developer

***Project Description:*** Safeway is a grocery store chain that operates in the United States and is owned by Albertsons Companies. Safeway stores offer a wide range of grocery products, including fresh produce, meat and seafood, bakery items, and household essentials. Many Safeway locations also feature a pharmacy, deli, and floral department, and offer online ordering and delivery services.

Responsibilities:

* Worked with the **scrum methodology** in a highly dynamic workplace and took part in sprint meetings.
* Experience in developing and deploying **Java 11** applications for various platforms, including desktop, web, and mobile.
* Expertise in using popular Java frameworks and libraries, such as **Spring, Hibernate, and JUnit,** with **Java 11.**
* Involved in designing, developing & testing the web application by using the **Angular 10** and **Node.js** which are used for server-side validation.
* Used Spark Streaming APIs to perform transformations and actions on the fly for building common learner data model which gets the data from Kafka in Near real time and persist it to Cassandra .
* Developed microservices using **Golang with RESTful APIs**, utilizing third-party libraries for routing and ORM, and implementing performance and scalability strategies.
* Proficient in seamlessly integrating **Golang microservices** with existing Java-based systems. Experienced in collaborating with Java development teams and leveraging Golang’s interoperability features, including cgo, to interface with Java code.
* Converted existing terraform modules that had version conflicts to utilize CloudFormation templates during deployments,
* Used **Angular 10** features like webpack5, inline fonts, typescript, autocomplete, navigation, and toolbar to increase the accessibility of the application for the user advantage and requirement.
* Extensively used **TypeScript** and asynchronous operations through **Angular HTTP Client** to consume data exposed through API’s and wrote test cases for unit testing the front-end using **Jasmine** and **Karma.**
* Used Java 11 features like **HTTP Client API**, **Lambda expressions** and **Java Platform Module System** to organize and manage java modules and used Spring Boot framework to construct microservices.
* Designed and implemented micro-services architecture using **Spring Boot** enabled Rest API and used Spring AOP, Spring IOC, Spring Annotations, Spring Transactions and Spring Batch along with Hibernate as the back end ORM tool for implementation of persistence layer and mapping of **POJOs**.
* Developed Restful services using Spring Framework and handled access-control features like authentication and authorization by using **Spring Security**, **OAuth 2.0** with **JWT**.
* Deployed Spring Boot based microservices in **Docker** and Amazon EC2 container using **Jenkins**.
* Designed, Configured, and deployed **Amazon Web Services** (AWS) for multiple applications utilizing the Amazon cloud formation templates and deployed applications in EKS cluster using the docker files in AWS.
* Used **Eureka** server as service registry for microservices and **cloud-config** written in JSON format to manage the cloud services.
* Using **PostgreSQL**, created database tables that can accommodate any amount of data storage and retrieval as well as any volume of request traffic. Also created stored procedures, triggers, cursors, and views for database updates.
* Built NoSQL schemas and maintaining sessions by **MongoDB.**
* Used Spring-boot- starter-parent as the parent POM and inheriting sensible default settings from Spring Boot and the spring-data- Mongo dB dependency provides integration with the MongoDB.
* Involved in setting up **ActiveMQ** using the Spring JMS API for publishing messages to the clients.
* Used **PowerMock** for the unit, performance, and integration testing of various modules.
* Worked with **BA** and **QA** team to confirm requests from clients and helped them set up environment for testing.
* Used **Splunk** for creating monitoring and analytics solutions and a log aggregator **Logback** for log analysis and debugging.
* Tested the performance of our API using **Postman**.
* Extensively used **AWS CodeCommit** software repositories for implementation of version control and **Maven** build tool.

**Environment**: Angular 11, Node.js, Golang, Jasmine, Karma, Spring Boot, OAuth 2.0, JWT, AWS, Docker, Jenkins, Eureka, PostgreSQL, Asana, ActiveMQ, PowerMock, Splunk, Logback, Postman, AWS CodeCommit, Maven

**Client: Northern Trust Corporation– Chicago, IL. Jan 2020 – Oct 2021**

Role: Full Stack Developer

***Project Description:*** Northern Trust Corporation is a financial services company and a global leader in asset management, wealth management, asset servicing, and banking solutions. Northern Trust offers a wide range of services to institutional and individual clients, including investment management, asset servicing, fund administration, and custody services.

Responsibilities:

* Involved in the analysis, design, development and system and integration testing phases of Software Development Lifecycle and followed **Agile Scrum Methodology** to analyze, define, and document the application which will support functional and business requirements.
* Designed and developed **Microservices** business components using **Spring Boot**.
* Implemented **RESTful** Web services in Service Oriented Architecture (SOA) to retrieve data from client side and made **REST API** calls from Angular and parsed the data to client.
* Provided Security and Authorization using Spring Security.
* Worked with an Agile development team to deliver an end-to-end continuous integration/continuous delivery product in an open-source environment using **Jenkins** to get the job done.
* Used **React JS** library for building user interfaces including creating and maintaining front end applications.
* Worked on analyzing Hadoop cluster using different big data analytic tools including Flume, Pig, Hive, HBase, Oozie, Zookeeper, sqoop, Spark and Kafka.
* Built reusable and customizable React JS components like **React-DOM** and **JSX** to create a single page web application and stand-alone functions.
* Developed the web application using **Node.js** libraries with NPM package management system.
* Used **Axios** with react for making **AJAX** calls to node services and used to integrate the front end with back-end application.
* Expertise in integrating Terraform with Ansible, Packer to create and Version the AWS Infrastructure, designing, automating, implementing and sustainment of Amazon machine images (AMI) across the AWS Cloud environment
* Worked on different concepts of **Java 1.8** like Multithreading, collections, Core Java, SQL, Stored Procedures, XML Parsing, Generating XML Requests.
* Extensively worked on the **Spring Boot** microservices architecture, Spring bean wiring, Spring DAO, and Spring AOP modules, as well as the implementation of Spring AOP in exception handling, which cuts down the amount of effort needed to design exception handling.
* Involved in designing & development of various Node rest services using node, express and **MongoDB.**
* Experience in design and migrating the projects to **Azure Environment** and worked on Azure cloud technologies like **App Services, Azure Functions and Storage services.**
* Used **AKS** for deploying CI/CD pipelines in cloud storage and integrated other Azure services like Azure container registry and Azure monitor.
* Used to set up the automatic build and deployment automation for project by using **Jenkins** and **Maven**.
* For communication between multiple services, used **Kafka** messaging system as pub-sub and feign, Rest Template for synchronous communication.
* Storing and Extracting logs from **Splunk** for easy search, reports, dashboard, and alerts.
* Developed RESTful Web Services with JAX-RS using **Spring Boot** and Micro Services Architecture and worked on testing the RESTful APIs using tools like **Postman**.
* Used **Mocha** to write unit test cases for React and testing rest API's with help of **JMockit** and **JUnit** for unit and performance testing.
* Used **SLF4J** utility to compute run-time logs for project management and **GitLab** for version management.

**Environment:** React JS, Node.js, Spring Boot, Java 1.8, Axios, AJAX, Docker, Kubernetes Jenkins, AKS, Maria DB, Cosmos DB, Kafka, Maven, IntelliJ, GitLab, Splunk, Postman, Mocha, JMockit, JUnit.

**Client: Truist Finance, Delaware, United States July 2018 to Feb 2020**

Role: Full Stack Developer

* Proficient in JavaScript (JS) and TypeScript (TS) for interactive and dynamic web applications.
* Created custom directives in Angular 12 for reusable components like multi-field form elements and background file uploads in the application to restore the components.
* Worked with Angular CLI, Typescript in Angular 12 to create Controllers and Components for the web pages.
* Utilized Angular 12's enhanced features for template inlining and better AOT (Ahead-of-Time) compilation.
* Proficient in Java 8/11 and its latest features, utilizing them to develop efficient and up-to-date applications.
* Proficient in Java 1.8 features, including lambda expressions, functional interfaces, and the Stream API, to write efficient and concise code.
* Created Angular service and integration with RESTful APIs. Used Angular HttpClient to send GET/POST request to fetch data from server.
* Experienced in Oracle and MongoDB, ensuring effective and organized data management.
* Skilled in SonarQube and Sonar Lint for maintaining code quality and adherence to best practices.
* Strong command over building REST APIs, enabling seamless communication between different software components.
* Designed RESTful APIs and generated API documentation using Apigee tools, ensuring clear communication and adherence to best practices.
* Designing and developing Restful API and services using best practices to interact within the Microservices and with the front end.
* Expertise in Spring Boot, utilizing its features to rapidly develop applications and enable microservices architecture.
* Successfully crafted complex SQL queries to retrieve specific data subsets from large databases, ensuring accurate and relevant results.
* Designed GraphQL type systems that accurately model data entities, relationships, and constraints, ensuring a coherent API structure.
* Experience in creating and managing application configurations using Spring Boot's property files, YAML, and profiles for different environments.
* Developed software for AWS in Java 11 (using Spring Boot, Framework, MySQL 5.6, AWS Aurora, Lambda, API Gateway, S3, SNS, SQS, Dynamo DB, EC2, (web application firewall) and Apache Tomcat web server.)
* Excellent in deploying the applications in AWS as EC2 instances and creating snapshots for the data that must be stored in AWS S3.
* Administered, monitored and maintained multi data-center Cassandra cluster using OpsCenter and Nagios in production.
* Experienced in using EKS to orchestrate containerized applications using Kubernetes, including managing pods, deployments, and services.
* Experience in utilizing message serialization formats (JSON) for efficient data exchange within Kafka.
* Skilled in configuring auto-scaling and load balancing for applications on PCF, ensuring optimal performance and resource utilization based on demand.
* Proficient in Node.js, a runtime environment for building server-side and network applications, using JavaScript.
* Extensive experience in Amazon Web Services like EC2, Simple DB, RDS, Elastic Load Balancing, SQS, SNS, AWS Identity and access management, AWS Cloud Watch, Elastic Beanstalk and Cloud Front, Redshift.
* Worked with modules like MongoDB (NoSQL) for database persistence using Node.js to interact with mongo DB.
* Designed and deployed Apache Cassandra clusters to handle large-scale, high-velocity data workloads, ensuring data availability and fault tolerance.
* Extensive experience in processing large-scale datasets using Apache Spark, enabling efficient data analysis and insights extraction.
* Proficient in setting up and configuring Amazon EKS clusters, ensuring scalability, availability, and security.
* Effectively interacted with various AWS services through the CLI, including EC2, S3, IAM, Lambda.
* Proficient in Docker containerization technology, enabling the packaging and deployment of applications and services.
* Collaborated effectively with development teams, DevOps, and other stakeholders to integrate AWS SQS into applications and workflows, meeting messaging requirements.
* Successfully decomposed monolithic applications into microservices, identifying bounded contexts and defining service boundaries.
* Designed and developed Java APIs for consuming and executing AWS services like AWS Lambda, EC2, S3.
* Well-versed in Agile and Scrum methodologies, contributing to efficient and collaborative project management.

**Environment**: Java 8, Java 11, Spring Boot, JPA-Hibernate, Spring Boot Micro services, Kafka, JSON, XML, Angular 12, Maven, Tomcat Server 8, Amazon AWS, POSTMAN, AWS Services, PostgreSQL, JDK 17, JDK 11, JDK 8, Python, Flask, Jasmine, Karma, Junit, Mockito, Bitbucket, IAM, CloudWatch.

**Client: PwC, Dallas-TX May 2017 –Jun 2018**

Role: Java Developer

***Project Description:*** PwC, short for PricewaterhouseCoopers, is a multinational professional services network that provides audit, tax, and consulting services. PwC's clients come from a wide range of industries, including financial services, technology, healthcare, energy, and retail. Assurance services include financial audits, risk assurance, and sustainability reporting, while tax services include tax planning, compliance, and international tax advice.

Responsibilities:

* Engaged in all phases of SDLC involving specifications, requirement gathering, designing, coding, testing, deploying, and implementing projects using **Agile** methodology.
* Designed and implemented front end web pages using **HTML, CSS, JavaScript, Bootstrap, jQuery** for client-side validation.
* Worked with **Angular 4** and **Node.js** in the phase of migration and designed in-house build automations and continuous integration systems by utilizing **Node.js**
* Worked on developing microservices with **Spring MVC**, **Spring Boot**, and **Spring Cloud** as well as an essential part of web analytics with **Angular**.
* 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.
* Responsible for maintaining and expanding AWS infrastructure using AWS Stack and especially worked with **AWS CloudWatch**
* worked with to Teffaform create stacks in AWS, and updated the Teffaform scripts based on the requirement on regular, Assortments, Products to Apache Kafka Topic by using custom Serializers. Exposed teh endpoint for Swagger and developed
* Worked on deploying the application into the AWS cloud following CI/CD pipelines.
* Written SQL queries for performance improvement and used PL/SQL scripts on **MySQL** database.
* Expertise in writing complex SQL and PL/SQL queries for retrieving data from SQL and NoSQL databases like **Maria DB** and **Cosmos DB.**
* For better communication between multiple services, I used **RabbitMQ** as messaging system.
* To acquire extra functionality for the build process, I worked with the **IntelliJ IDE** and the **Gradle** build tool.
* Used **Apache** **Tomcat** Web Server to deploy the application in web server and **GIT** as version control for branching and merging of source code management.
* Unit testing of developed product Microservices features using **Mockito** and **JUnit** frameworks as part of development cycle.
* Used **Log4j** to capture the logs which includes the runtime exception and **AWS CloudTrail** is used to monitor the logging errors and helpful in debugging.
* **SoapUI** and **Postman** are used for API testing.

**Environment:** HTML, CSS, JavaScript, Bootstrap, jQuery, IntelliJ, Gradle, Angular 4, Node.js, Java 1.8, Spring MVC, Spring Boot, Spring Cloud, MySQL, AWS CloudWatch, RabbitMQ, Apache Tomcat, Log4j, Mockito, JUnit, GIT, AWS CloudTrail, SoapUI, Postman

**Client: RESOURCE SOFTECH LIMITED, Hyd Mar 2014 –Sep 2016**

Role: Java Developer

**Responsibilities**

* Involved in the Software Development Life Cycle (SDLC), Requirements gathering, Design, and Code, Integration, and Deployment and production phases.
* Developed client-facing Struts web applications by creating and modifying Java classes, JSPs, Struts Delegates and DAOs, AJAX.
* Designed SOAP messages using XML to encapsulate data and provide a standardized format for communication.
* Implemented Logic for pulling the data from the REST API with Axios AJAX and issued HTTP requests to interact with REST endpoints.
* Involved in developing code for obtaining bean references in spring framework and used Spring MVC to implement the Model View Controller pattern. Used Spring Icon to inject data into Java beans.
* Implemented container orchestration platforms like Kubernetes or Amazon ECS (Elastic Container Service) to manage and scale PostgreSQL containers in a production environment.
* Integrated Angular with Restful APIs using HTTP services, fetching and manipulating data from backend servers to populate the application’s user interfaces.
* Developed dashboard based on Ajax calls with Business Customers Count, Flags, Real-time graphs for Analytical Reporting using Node JS.
* Implemented JSON web tokens mechanism for authentication and authorization security configurations using Node.js.
* Proficient in configuring and working with popular JMS providers such as Apache ActiveMQ, IBM MQ, or RabbitMQ
* Thorough knowledge of XML Schema Definition (XSD) for data validation.
* Efficient in using J2EE Frameworks like Struts, Restful Web Services, Hibernate, Spring Technologies.
* Implemented asynchronous logic for CRUD operations in MongoDB using mongoose connector, and assertions.
* Designed and deployed microservices-based applications on JBoss, leveraging its adaptability to modern development practices and containerization.
* Developed WSDL (Web Services Description Language) contracts to define the structure and behavior of SOAP services.
* Skilled in utilizing various AWS services, including S3, for cloud-based solutions.
* Designed and developed Java APIs for consuming and executing AWS services like AWS Lambda, EC2, S3.
* Proficient in AWS services such as EC2, S3, RDS, DynamoDB, Lambda, and CloudWatch, creating scalable and reliable cloud-based solutions.
* Successfully deployed and managed Java EE applications on JBoss utilizing features like hot deployment for seamless updates.
* Managed database connections, connection pools, and other resources efficiently on JBoss to ensure optimal utilization and prevent bottlenecks.
* Implemented a Continuous Delivery pipeline with Docker, Jenkins and GitHub and AWS AMI’s.
* Implemented various SOAP operations such as request-response, one-way, and solicit-response.
* We hosted all our micro services in AWS cloud infrastructure using Jenkins CI/CD pipelines.
* Use Selenium for creating the web-based test automation suite and perform functional testing.
* Used Pivotal Cloud Foundry to quickly build, deploy and update the applications and managed Pivotal Cloud Foundry based platform built on Kubernetes programming with deployment manager and containerized using Docker.

**Environment**: Core Java, HTML5, CSS3, Typescript, Git, NPM, Spring Security (JWT), JDBC, MongoDB, Kafka, Node.js, JDK 17, Maven, AEM, Kubernetes, Jenkins, Git, Pivotal Cloud Foundry, Selenium, Junit.

**Client: Prism Software Solutions, India July 2012 – Feb 2014**

Role: Associate Software Developer

***Project Description****:* Prism Software Solutions is a software development and IT services company based in India. The company provides a wide range of services, including software development, web design and development, mobile app development, cloud computing, and IT consulting. Prism Software Solutions serves clients in various industries, including healthcare, finance, education, retail, and logistics.

Responsibilities:

* Involved in all phases of the Software development life cycle using **Agile** Methodology in developing the web application using Java and J2EE technologies.
* Designed and developed the user interface, application modules and business components using **CSS, Bootstrap, jQuery, HTML** and **JavaScript**.
* Used **Spring MVC** for developing and maintaining existing functionalities and business logic processing.
* Built the application using **Java 1.6** and **JDBC** concepts to connect with the **MySQL** database.
* Performed crud operations like create, update, insert and delete data in the database and worked on how to alter the data.
* Working with **Eclipse** IDE and using the **ANT** build tool to achieve more functionality for the build process.
* Used **JBoss** Application Server to deploy the application and **GIT** as version control for code commits and updates.
* Used **JUnit** to unit test the modules and **Log4j** as a framework for monitoring errors.
* Used **SoapUI** to check the response of various API's.
* Good Knowledge in coded Java applications on both client-side and server-side using JDBC and advanced Multithreading.
* Implemented the database connectivity using JDBC with Oracle 11g database as the backend.
* Developed robust and scalable applications using Spring Data JPA, providing a seamless integration between the Spring Framework and the Java Persistence API(JPA).
* Integrated and consumed data from external APIs using JavaScript, making asynchronous API calls, handling responses and parsing JSON data.
* Used Java Persistence API (JPA) and hibernate for performing the Database Transactions.
* Configured and deployed the application on WebLogic Application Server.

**Environment**: HTML, CSS, JavaScript, Bootstrap, jQuery, Spring MVC, Eclipse, ANT, Java 1.6, JDBC, MySQL, JBoss, GIT, JUnit, Log4j, SoapUI.