**SANDEEP REDDY VARALA**

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**PROFESSIONAL SUMMARY:**

* 9+ years of experience in IT experience in Analysis, Design, Development, Implementation, and Testing in JAVA/J2EE technologies. Worked in Agile/SCRUM and Waterfall development methodologies.
* Proficient in Core Java - OOPS, Exception handling, Multi-Threading, Generics, and Collections.
* Expert in the development of various web, and enterprise applications using Java/J2EE technologies such as Struts, Spring, and Hibernate with Java 1.8 features like Stream API, Lambda expressions and Filters, etc.
* Experienced in UI frameworks - HTML5, DHTML, CSS3, JSP, AngularJS, Angular 4/6/7/8/9, NodeJS, jQuery, JavaScript, Bootstrap, Ajax, TypeScript, ReactJS, BackboneJS, ExpressJS.
* Experience in Spring modules such as Spring MVC, IOC, AOP, JDBC, JTA, IO, Spring Boot, Spring Microservices, Spring REST, Spring Eureka, Consul, Swagger UI, and Spring Zuul.
* Used Java/J2EE patterns Front Controller, Session, Facade, DOM, Factory Method, and Singleton.
* Worked on Microservices patterns - Circuit Breaker/Hystrix, DDD, Aggregator, Proxy Chaining.
* Developed Spark code using Scala and Spark-SQL/Streaming for faster testing and processing of data.
* Experience in Spring Boot - Microservices, Pivotal Cloud Foundry (PCF), Engaged with Spring Boot.
* Proficient in using Amazon Web Services AWS. Extensive experience focusing on services like EC2, VPC, Cloud Watch, Cloud Front, Cloud Formation, IAM, S3, Amazon RDS, Elasticache, SNS, and SQS.
* Experience with application build tools like ANT, Maven, Docker, and Gradle, and logging tools like Log4J
* Developed applications using MEAN/MERN (Mongo, Express, Angular/React, Node) technologies.
* Working on Azure for highly available customer-facing B2B and B2C applications
* Experienced Scala in using and spark streaming and Akka for ongoing transactions for customers.
* Experienced in developing scripts for doing transformations using Scala.
* Defined rules using JRules that are defined for resources to show details on UI pages. Followed up with
* Business Analysts to create conditions for business functions using JRules UI.
* Proficient in NoSQL DB such as Apache Cassandra DB, and MongoDB.
* Worked on messaging systems using message brokers such as Kafka, JMS, ActiveMQ, and RabbitMQ.
* Used build/deploy tools Ant, Maven, Jenkins, ClearCase, CVS, SVN, Nexus, Git, ClearQuest, and Sonar.
* Automated repetitive tasks using Python scripts, resulting in increased productivity and efficiency.
* Expert in IDEs - RAD, NetBeans, Eclipse. Application servers WebSphere, Weblogic, JBoss, Tomcat.
* Expertise with the employment of Spring Kafka and Zookeeper apart from JMS as a messaging service.
* Integrated Python scripts with various databases, including SQL- databases (MySQL, PostgreSQL) and NoSQL databases (MongoDB), for data storage and retrieval.
* Used Quarkus, and Spring Core Annotations for Dependency Injection and Spring Boot for microservices
* Developed CI/CD system with Jenkins on Kubernetes container environment utilizing Kubernetes.
* Know Kotlin Android Extensions framework.

**TECHNICAL SKILLS:**

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| **Category** | **Technologies/Tools** |
| **Java** | Collections, Generics, Multithreading, Serialization, Exception Handling, File I/O |
| **J2EE** | JSP, JDK, JVM, JRE, Servlet, EJB-Session Beans, Entity Beans, JDB |
| **Programming Language** | Java 1.6/1.7/1.8, J2EE, SQL, Python, Shell Scripting, Typescript, PL/SQL |
| **Frameworks** | Spring, MVC, Spring Boot, Hibernate |
| **Databases** | Oracle, MySQL, Cassandra, No SQL, MongoDB |
| **Middleware** | Apache Tomcat, J-Boss, IBM WebSphere, WebLogic, Apache Http |
| **UI Technologies** | HTML, XHTML, JavaScript |
| **Web Services** | WSDL, SOAP, RESTFUL, XML, JAX-WS, JAX-RS, Microservices |
| **Web Technologies** | Angular 6,7,8,9, Js, Node js, React.js, Vue Js, Bootstrap, JSON, Gradle |
| **Amazon Cloud Technologies** | EC2, EBS, IAM, Cloud Watch, Cloud Trail, Pivotal Cloud Foundry, S3, Route 53, VPC |
| **Methodology** | Waterfall, Agile, SCRUM, TDD, Lean and Kanban |
| **IDE Tools** | Eclipse, STS, MyEclipse, IntelliJ |
| **Cloud** | Docker, Kubernetes, Terraform, AWS EC2, MongoDB Atlas |

**PROFESSIONAL EXPERIENCE:**

**Kaiser Permanente, Foster City, California Apr 2022 - Present**

**Sr. Java Full Stack Developer**

**Responsibilities:**

* Used advanced Java 1.8 features like Lambda expressions for array operations, collections, enhanced concurrency methods, etc. Migrated all dependencies from Java 1.8 to the latest stable version Java 11+.
* Developed screens using HTML5, CSS3, SASS, JavaScript, jQuery, Angular 9, React, and AJAX.
* Developed a common Flink module for serializing and deserializing AVRO data by applying schema.
* Built application UI with a bootstrap library, and used Angular JS to associate HTML elements to models.
* Configured XML Schema for the application and used JavaScript for the client-side validation.
* Implemented Services and dependency Injection in Angular 9 to connect web applications to backend APIs, and shared code between components.
* Created Angular 9 Components and services using Angular CLI It has a quarkus CLI that can be used as a helping tool to generate and manage project code and dependencies.
* Implemented solutions using Hadoop, Apache Spark, Spark Streaming, Spark SQL, HBase, and Scala.
* Developed a data pipeline using Apache Kafka, Apache Flink, and Apache Cassandra for real-time data processing and storage.
* Created a database known as SQL AZURE database, which integrates with Active Directory and Hadoop.
* Deployed and maintained Windows phone applications on Azure cloud technologies.
* Quarkus apps can be compiled into native code that can be executed on GraalVM.
* This makes the executables smaller, their memory footprint smaller, and the execution faster Dependencies.
* Used Node Package Manager (NPM) to install angular-cli, and typescript to develop the angular app in Node.
* Worked in DOM, React Props, Lifecycle methods, and React States and Events.
* Involved in creating web applications utilizing Quarkus, Spring, and Restful web services, used Angular, HTML5,
* CSS3, JavaScript, JSP, JQUERY, React, TypeScript, AJAX and Bootstrap
* Identifying and troubleshooting performance issues and bugs in Quarkus-based applications.
* Used Angular components in Angular modules with decorator functions like Component and NgModule.
* Built MEAN applications using MongoDB, Express.JS, Angular-JS, and Node-JS, created Webservices (Restful) to interact with UI using REST API with Node-JS, Express-JS and installing client-side dependencies.
* Implementing Microservices to base on RESTful API utilizing Spring Boot with Spring MVC.
* Used an annotation-driven approach to develop an application using Spring Boot and was involved in setting up the Spring bean profiling. Developed multiple batch processes using Spring Batch using Spring Boot
* Created and injected Springservices, controllers, and DAOs to achieve dependency injection.
* Implemented SOA to develop Spring RESTful/Microservices and implemented Spring Eureka, Netflix, and Ribbon as part of Services Discovery using Apache Axis.
* Quarkus comes with an extension system. An extension can configure a library's classes for compilation into a native image Configuration.
* Worked with Quarkus, Spring Framework for Dependency Injection, Spring Context to provide message sources
* Maintained infrastructure with AWS and worked with database setup and maintenance on AWS EC2.
* Used AWS to build applications that work with AWS S3, EC2, RDS, IAM, Elastic Bean Stalk, VPC, and SQS.
* Defined AWS security groups as virtual firewalls to control traffic to reach AWS EC2 instances
* Used Spring Annotations to simplify business logic for creating Spring MVC, and RESTful webservices.
* Implemented pre-authentication and database security using Spring security and securing application access and Spring Batch for scheduling and maintenance of batch jobs.
* Extensively used Hibernate concepts like inheritance, lazy loading, locking & transactions.
* Created reusable and testable React JS functional and class components using ES6.
* Analyzed Maven dependency in the codebase to annotate dependency on Spring Boot into Gradle.
* Used CXF Framework to build, and develop services using frontend programming APIs, like JAX-WS, and RS.
* Deployed Microservices as Restful Java Web Services on AWS Elastic Beanstalk.
* Used React JS for templating for faster compilation and developing reusable components.
* Configured AWS Identity & Access Management(IAM) Groups, Users to improve login authentication
* Created and configured Microservices architecture, and integrated it with the React JS application.
* Used React & Redux Dev Tools plugins to observe component state and prop changes instantly.
* Created plugins to extract data from sources like Apache Kafka, Databases, and Messaging Queues.
* Composed and executed MongoDB scripts to insert and update the NoSQL database and reporting.
* Installed Pivotal Cloud Foundry (PCF) on EC2 to manage the containers created by PCF.
* Implemented security on microservices with Spring Boot Auth server, JWT as OAUTH2 mechanism.
* Worked with the OpenShift platform in managing Docker containers and Kubernetes Clusters.
* Worked on creating, retrieving, updating, and deleting documents in MongoDB.
* Developed API for using AWS Lambda to manage the servers and run the code in the AWS.
* Built RESTful web services with Node JS Server in the back-end to handle requests sent from the front end using jQuery and Ajax calls. Tested REST services using Google Chrome’s POSTMAN plugin.
* Deployed the services using Docker container to host in AWS and utilized the AWS platform to upload data into S3 buckets, and EC2 instances. Monitored the error logs using Log4J and fixed the problems.
* Used Jenkins for CI/CD Continuous Implementation and Continuous Delivery.
* Created the Docker containers and Docker consoles for managing the application life cycle.
* Prepared Junit, and Test NG test cases, and executed them as part of the auto-build process from Jenkins Jobs.
* Used GIT for version control, experience with git-bash and git-hub. Used JIRA for bug tracking.

**Environment**: Java 1.8/11, Microservices, HTML 5, CSS 3, Bootstrap, Angular 9, JavaScript, JSON, Ajax, Maven, Spring, Hibernate, Spring Boot, Restful Webservices, PCF, Kafka, Kubernetes, Node JS, Agile SCRUM, IntelliJ, JBoss, AWS, Jenkins, Git, Docker, JAX-RS, Junit, Log4j, Oracle, Swagger, Agile.

**PayPal, Holmdel, New Jersey Jan 2021 - Mar 2022**

**Sr. Java Full Stack Developer**

**Responsibilities:**

* Developed UI of application modules using CSS, jQuery, Angular JS, AJAX, JSON, and DOJO.
* Used ReactJS to create views to hook up models to the DOM and synchronize data with the server as an SPA.
* Designed UI screens with React JS, Redux, Saga, Thunk, React HOC, React Bootstrap, Axios, SASS, LESS.
* Developed modules using Core Java APIs, Collections, Java 1.8 (Streams), Jordan API (Dates), Multi-threading, Exception Handling, Generics, Enums, Java I/O, and object-oriented design patterns.
* Implemented the Drag and Drop functionality using React-Draggable.
* Used Angular 8 and Confidential Covalent UI as frameworks to create a Single Page Application (SPA) which can bind data to specific views and synchronize data with the server.
* Created Angular service and integration with RESTful APIs and Angular HTTP Client to send GET/POST requests to fetch data from the server.
* Used J2EE design patterns like DAO and MVC to enhance the existing Java/J2EE-based code base.
* Also developed custom Quarkus extensions to integrate with specific business requirements.
* Involved in bundling, and developing React components for the partner homepages using React JS.
* Used J2EE design patterns like Value Object Pattern, Session facade, Singleton, Factory, and DAO.
* Conducted simultaneous queries and retrievals using Java multithreading techniques.
* Extensively used Angular-CLI to generate components, routes, services, and pipes and to run tests.
* Implemented fail-safe and circuit breaker patterns in Spring Boot MicroService applications using Hystrix and monitored the services using Hystrix Dashboard.
* Built Microservices (REST & SOAP) using Spring boot, and Spring security and deployed them to the AWS cloud.
* Installed AWS CLI to control AWS services through SHELL/BASH scripting.
* Used AWS SDK for connection to Amazon S3 buckets as it is used as the object storage service to store and retrieve the media files related to the application.
* Implementing or exposing the Microservice architecture with Spring Boot-based services interacting through a combination of REST and Apache Kafka message brokers.
* Monitored service health check from Spring Boot admin console using Swagger UI Microservices.
* Implemented modules into Node JS to integrate with designs and requirements.
* Analyzed Node.JS structure, and REST service by using Java JAX-WS API, and did corresponding configurations.
* Used spring and Spring MVC components to implement the business layer and navigation part of the application.
* Developed using Hibernate mappings, HQL, Query, Criteria, Lazy loading Transactions, and Locking.
* Used Spring MVC Transaction Management, Spring/Hibernate Batch Transactions, and cache concepts.
* Implemented Hibernate Template to a great extent making use of HQL, Named Parameters, Named Queries, and interfaces such as Expression, Query, and Criteria.
* Developed Microservices by providing design and POC model. And using Spring Boot.
* Created the Docker containers and Docker consoles for managing the application life cycle.
* Migrated existing applications into Microservices (REST) to provide CRUD capabilities using Spring Boot.
* Generating Java classes from the respective APIs so that they can be incorporated into the application.
* Monitored Cassandra cluster for utilization. Knowledge of Cassandra systems backup & recovery.
* Developed Maven scripts and built using Maven and continuous integration (CI) servers like Jenkins.
* Created AWS S3 buckets to keep the web app files and the CloudFormation templates.
* Worked on AWS EC2, AWS S3, AWS RDS, VPC, IAM, AWS Elastic Load Balancing, Auto Scaling, Cloud Front, CloudWatch, SNS, SES, SQS, and other services.
* Data communication between various events and fulfillment systems is developed using Restful API.
* Worked on Rest Web services and Node Rest framework for backend services.
* Involved in unit testing of various modules by generating test cases using Jasmine, Mocha, and Karma.
* Used TOAD to interact with Oracle database, performance tuning DB execution.
* Designed and Developed the Automation Testing using Java, Selenium Web Driver, and TestNG.
* Used Log4j for logging and debugging and used JUnit extensively for testing.

**Environment**: Java 1.8, AWS, Spring Boot, Microservices, Restful, Apache CAMEL, JUnit, Cassandra, Scala, HTML5, CSS, JavaScript, Bootstrap, jQuery, Node JS, ReactJS, Maven, AJAX, XML, XSLT, log4j, Git, Agile.

**American Family Insurance, New York, NY Jun 2019 - Dec 2020**

**Java Full Stack Developer**

**Responsibilities:**

* Designed and developed the REST-based Microservices using Spring Boot, and Spring Data with JPA.
* Developed Microservices to provide Restful API utilizing Spring Boot with various data persistence frameworks such as Hibernate, JPA, and messaging engines.
* Developed Single-page applications using Angular 6 components, and directives using Typescript.
* Worked on the web page enhancements using HTML, CSS, Angular 6, JavaScript, Servlets, and JavaBeans.
* Developed Java collection API with Java 8 features, and used Spring security for Authentication, and authorization.
* Implemented Spring boot microservices to process the messages into the Kafka cluster setup.
* Used React JS Components, Forms, Events, Keys, Routers, Animations and Flux concepts.
* Developed components and utility files using JSX which combines HTML and React JS together.
* Developed web pages using HTML 5, SASS, React JS, Redux, Flux, CSS, TypeScript, JavaScript, Bootstrap, Node JS, and NPM. Created new React components, containers, services, and APIs.
* Developed Microservices business components and RESTful service endpoints using Spring Boot.
* Used Web Methods JSON built-in services to transform JSON to XML and XML to JSON.
* Used JavaScript, jQuery, and Dojo for client-side validations and implemented the Basic AJAX implementation.
* Handled the JSON response parsing JSON Object and displayed the results in UI webpages.
* Used spring components - Aspect Oriented Programming (AOP), Dependency Injection(DI), MVC, DAO, and Transaction Management etc. Worked on Pivotal Cloud Foundry (PCF) to host Cloud Applications.
* Involved in developing UI components using Angular 6 and JSON to interact with RESTful web services
* Used Angular 6 to create a Single Page Application (SPA) to bind data to specific views, and synchronize data.
* Develop UI automation for Node JS, Angular 6, Microservices have been built using spring boot, Netflix OSS, Spring Cloud, and deploying to AWS Cloud.
* Used Hibernate as an ORM tool in the persistence layer and developed POJOs, Data Access Object (DAO).
* Deployed applications utilizing AWS Including EC2, S3, VPC, EMR, Cloud Watch, Docker, and Kubernetes Orchestration container (EKS) focusing on high availability, fault tolerance, and auto-scaling.
* Used Spring Core Annotations like Spring DI for Dependency Injection, Spring MVC for REST APIs, and Spring Boot for Microservices. Manage dependency injection using Spring Boot frameworks.
* Worked on Mongo DB concepts such as locking, transactions, indexes, replications, and schema design.
* Designed and Monitoring, optimizing large Distributed Data Clusters using MongoDB.
* Use AWS Cloud Watch to monitor AWS services & AWS Cloud Watch logs to monitor the application.
* Installed application on AWS EC2 instances and configured the storage on AWS S3 buckets.
* Involved in writing Test Suites and Test Cases for unit testing and implemented unit testing using Junit.
* Set up the Continuous Integration (CI) and Continuous Development (CD) for the application using Jenkins.
* Configured Jenkins for deployment in Pivotal Cloud Foundry (PCF), integrated with GitHub control.
* Build a CI/CD pipeline using Jenkins automation and GitHub repositories using the webhooks plugin.
* Created continuous integration builds using Ant Jenkins and deployed them on the WebSphere app server.
* Used version control repository SVN. JIRA for issue tracking. Log4j framework to log/track application.
* Used Gradle as a build tool and retrieved all the dependencies required for the application.
* Used SOAP UI for testing web services, App Dynamics for application health, and JMeter for stress testing.

Environment: Java 1.8, Spring Boot, jQuery, React JS, Spring, Maven, Bootstrap, CSS, JavaScript, Log 4J, Node JS, Angular JS, SoapUI, SVN, Kubernetes, JUnit, PCF, Restful, SOAP, AWS, Mongo DB, Hibernate, Gradle, Git.

**Q&T Software Solutions, Hyderabad May 2014 - Mar 2019**

**Full Stack Java Developer**

**Responsibilities:**

* Developed microservices with Spring and tested the application using Spring Boot.
* Design develop and test HTML5, CSS3, Bootstrap, JavaScript, jQuery, and Angular js that meets accessibility and web browser standards for website.
* Developed end-to-end web applications using Python, including front-end user interfaces, back-end server logic, and database integration. Implemented RESTful APIs using Python.
* Involved in bundling, and developing React components for the partner homepages using React JS.
* Implemented various screens for the front end using React JS and used various predefined components from NPM (Node Package Manager) and Redux library.
* Designed, and developed a custom, single-page, responsive Web Application on the front end using Angular JS, 2.
* Developed several reusable directives using AngularJS 2.0. Moved existing AngularJS controllers and services to Angular 2 components for more responsiveness and less dependency.
* Used Model to create two-way data bindings for reading and writing input-control values.
* Build servers using AWS for importing necessary volumes, launching EC2 instances, IAM, ELB, Route 53, and SNS as per architecture. Changing the AWS infrastructure Elastic Beanstalk to Docker with Kubernetes.
* Worked on React JS Virtual Dom and React views, rendering using components that contain additional components called custom HTML tags.
* Deployed Python application to production environments, utilizing platforms like Docker and orchestration tools like Kubernetes to achieve scalability and high availability.
* Deployed Spring Boot - microservices Docker container using AWS EC2 container, AWS admin console.
* Implemented RESTful web services which produce both XML and JSON files to perform tasks, RESTful web service using Jersey for JAX-RS implementation, which leveraged both web & mobile applications.
* Worked on integrating JMS with Spring Boot by providing an instance that is embedded with Active MQ.
* Implemented Spring Security for posing security constraints on JSF UI page views.
* Involved in testing the SOAP web services endpoints using the SOAP UI tool.
* Deployed Docker images, and built continuous delivery pipeline with AWS Code Pipeline, AWS ECS.
* Implemented functionality with custom, self-contained, reusable Angular modules, components, and services.
* Used AJAX, and JSON to send requests to the server to check the functionality of the websites and for storing and exchanging information between browsers and servers.
* Used GIT as version control. Utilized NPM scripts for build and test environments in a Node JS application.
* Developed and deployed multiple applications in the PCF (Pivotal Cloud Foundry) Platform.
* Expertise working on continuous build integration (CI/CD) tools Jenkins.
* Create and maintain Jenkins jobs for storing the build artifacts in Nexus/Artifactory and automation process to upload chef server, build Stack, Route53, and CNAME configuration.
* Involved in unit testing by writing the test cases and test suites with the help of JUNIT.

Environment: Java, Spring, Spring Boot, Microservices, AWS, JPA Hibernate, Node JS, REST, SOAP, Tomcat, HTML5, CSS3, Typescript, Bootstrap, Angular, Kubernetes, PCF, JSON, JMS, Jenkins, Agile scrum, GIT.

EDUCATION:

* Bachelor in Information Technology from JNTU, Hyderabad