**Pavithra Siddaramaiah(She/Her)**

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**Full Stack Developer**

**PROFESSIONAL SUMMARY:**

* Fullstack Java Developer with 5+ years of experience involving in all phases of Software Development Life Cycle (SDLC) including planning, analysis, design, implementation, testing and maintenance of multi-Tier distributed, secure enterprise applications using Java/J2EE technologies.
* Developed responsive web applications using front, back-end technologies like **Object-Oriented (OO) JavaScript, ReactJS, AngularJS, NodeJS, Express JS, jQuery, AJAX, JSON, HTML5, CSS3, Java, Spring MVC, Spring Boot, Hibernate and SQL**.
* Expertise in JAVA/J2EE Technology’s (Servlets, JSP, JDBC, EJB, JNDI, JSTL, POJO, JMS, JSF My Faces, Prime Faces, JPA, JAX-WS, JAX\_RS). Extensively used the J2EE design patterns like Session Façade, Business Object (BO), Service Locator, Data Transfer Object (DTO) and Data Access Object (DAO), Singleton pattern, Front Controller, and MVC.
* Experience on Java 8 features like **Lambda Expressions, Streams API, Date-Time API, Default, and Static methods in Functional Interfaces**. Proficiency in working with all databases like Oracle, MySQL, DB2, and MongoDB.
* Deployed applications based on Microservices using Spring Boot, and Spring Cloud and developed new libraries with Microservices architecture using Rest API.
* Created Web Applications, User Interfaces, and Layouts with HTML, CSS3, and JavaScript using W3C standards.
* Expert in HTML5/CSS3 development and have experience in React JS, Angular JS, Responsive design, and NodeJS.
* Experience in design, development, and support of Model View Controller using Struts and Spring framework.
* Proficient in XML technologies like XSL, XSLT, SAX, DOM, XPath, WSDL, DTD, XSD, SOA, JAXB, and Apache Axis.
* Implemented the latest **React features such as React Context API, React Hooks, Stateless Functional Components, Error Boundaries, and middleware such as Redux Thunk, and Redux-Saga.**
* Developed single-page applications using Angular 9, Typescript, Declarative User Interface, and POJO.
* Proficient in programming JavaScript data capture and event handling methods using the DOM event model.
* Strong experience in **Spring Framework modules such as Spring MVC, IOC, AOP, JDBC, JTA, IO, Spring Boot, Spring microservices, Spring REST, Spring Eureka, Spring Ribbon, Spring Netflix, Spring Zuul, Spring Security.**
* Experienced and deep understanding of logical and physical data modeling and relational database technologies.
* Experienced in NoSQL databases – Cassandra & MongoDB, database performance tuning & data modeling.
* Expertise in using Hibernate, extensively used Entity Class Associations, Criteria Queries, and Projections.
* Integrated Microservices with Hibernate ORM using Spring Boot and wrote HQL queries for data access.
* Experience in JMS over messaging to exchange information in a more reliable and asynchronous way in enterprise Applications. Used Apache Active MQ, Rabbit MQ, and AMQP as JMS providers.
* Experience on microservices based architecture using Spring Boot interacting through REST, SOAP API.
* Worked with the employment of Apache Kafka and set up the replication factors in Kafka Cluster apart from JMS.
* Developed Dynamic Single Page Application (SPA) using MEAN (Mongo, Express, Angular and NodeJS) Full Stack development tool kit. Deploying on EC2 Instances and connecting to databases on RDS.
* Experience in implementing AWS solutions using EC2, S3, RDS, EBS, Elastic Load Balancer, and Auto scaling groups.
* Experienced in automating, configuring, deploying instances on Amazon Web Services **(AWS) like Elastic Block Storage (EBS), S3, Elastic Load-Balancers (ELB), Elastic Compute Cloud (EC2), VPC, EMR, ELK, RDS, Route 53, Glacier, Elastic Beanstalk, CloudWatch, CloudTrail, Identity and Access Management (IAM), CloudFormation.**
* Good working knowledge on AWS IAM service - IAM policies, Roles, Users, Groups, AWS access keys and Multi Factor Authentication. And migrated applications to the AWS Cloud.
* Develop and maintain the back-end server and API endpoints using angular 16
* Experienced in writing unit test cases using Junit, TestNG, Mockito, Cucumber, Selenium.
* Working knowledge in version control tools like GitHub, CVS, SVN, Rational Clear Case, and Tortoise SVN.
* Expertise in source control tools like GIT, SVN, CVS, and JIRA for issue tracking along with logging tools like Log4J.
* Experienced in CI/CD process using Jenkins Creation, GIT, and Maven, which reduces the time for the deployment of Microservices on AWS. Expertise in integrating tools with Jenkins and writing jobs in Jenkins.
* Proficient in traditional software models like Waterfall and Test-Driven Development (TDD) approach using SCRUM framework under Agile Methodology.
* Experience in TDD with JUnit Framework using Mockito and Easy Mock, Spring Junit Runner, JMeter.

**TECHNICAL SKILLS:**

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| **Programming Languages** | Java (1.8/8/11), C, C++, PL/SQL, Python |
| **J2EE Technologies** | JSP, JSTL, Servlets, JDBC, EJB, Java Beans XSD, JAX-RS, JAX-WS, SOAP, WSDL, Axis, Apache CXF, Java Security, JBPM, Hibernate, JPA, iBatis. |
| **Web service Frameworks** | Spring, Hibernate, Struts, Spring MVC, Spring IOC, Spring Boot, Spring AOP, Spring Security, Spring Web Flow, JSF, Log4J, Junit |
| **Web Technologies** | HTML5, DHTML, JavaScript, AJAX, Bootstrap, jQuery, XML, XSLT, XSL, CSS3, JSON, Node Js, EXTJS, AngularJS, Angular 2/4/6/8/9,15,16, React JS, Redux, Flux. |
| **Databases** | Oracle, SQL Server, DB2, MySQL, Postgres SQL, Mongo DB, Cassandra. |
| **Methodologies** | Agile, Waterfall, Scrum |
| **Web Services** | SOAP, REST |
| **CI/CD/Build Tools** | Maven, Ant and Jenkins |
| **Design Patterns** | Singleton, Business Delegate, Data Transfer Object, Façade, Data Access Object, MVC |
| **Testing Frameworks** | JUnit, Mockito, Karma, Jasmine for (Angular) Mocha(React JS), Cucumber, Protractor |
| **Version Control Tools** | Git, SVN, CVS |
| **Cloud Technologies** | Azure, AWS (EC2, S3, ECS, RDS, ELK, IAM), Pivotal Cloud Foundry (PCF), Docker |

**PROFESSIONAL EXPERIENCE:**

**BDO, ON Sep 2023 to Present**

**FullStack Developer**

**Responsibilities:**

* Developed UI using HTML5, CSS3, JavaScript, jQuery, JSON, XML, TypeScript, Angular 9. Created custom pipes, custom directives in Angular 9. Built Angular 9, modules, controllers, templates, custom directives & filters.
* Consumed server-side SOAP UI web services and called them from angular 8 controllers.
* Worked with Microservice architecture using Spring Boot to modularized code and implemented Rest API's using Spring Rest. Applied Microservice patterns and concepts to develop high performing software solutions.
* Creating web services based on Rest Architecture using Spring Boot framework.
* Responsible for overseeing the implementation of CMM practices within the organization.
* Ensured processes are aligned with CMMI Level 3 and Six Sigma requirements and Developed and delivered training programs on CMMI Level 3 practices and Six Sigma methodologies.
* Used complete annotation driven approach to develop the application using Spring Boot and was also involved in setting up the Spring Bean profiling. Responsible for managing Microservices end to end.
* Involved in using Java 1.8 features like Parallel Streams, Lambdas, functional interfaces, and filters.
* Implemented Model-View-Controller (MVC) using Struts, Spring MVC. Created dynamic documentation for RESTful webservice using Spring Boot. Implemented the authentication of the application using Spring Security and OAuth.
* Spring beans were used for controlling the flow between UI and Hibernate.
* Configured Swagger-UI registered Microservice with Eureka server to monitor service health check from Spring Boot admin console and Spring Hystrix dashboard.
* Develop and maintain the back-end server and API endpoints using Angular 15 and also started using Angular 16jav
* Developed various pages for front end using ReactJS, various predefined components from NPM (angu Package Manager) and redux library. Used React JS to handle cross browser compatibility issues in different browsers.
* Developing scripts for build, deployment, maintenanceand related tasks using Jenkins, Docker.
* Developed AWS S3 buckets to copy artifacts into S3. Integrated Open stack API with AWS EC2 architecture in AWS.
* Worked on Build and deploy tools like Jenkins, Maven and ANT.
* Implemented Continuous Integration (CI)/Continuous Delivery (CD) using Jenkins, UNIX Shell scripts to automate routine jobs. Configured CI/CD pipelines for deploying microservices and lambda functions using Jenkins CI server.
* Have defined EDD for the events that are relevant to your application. These events can be user interactions, system notifications, or data changes.
* Implement EDD mechanism for communication between event sources and event handlers. You can use event buses, message brokers, or other event communication patterns to facilitate this.
* Used ReactJS in components like JSX, creating React components, Virtual DOM, React Props, Lifecycle methods, React States, Events. Implemented microservices using Pivotal Cloud Foundry (PCF) to build Spring Boot Services.
* Developed of Service Oriented Architecture (SOA) and Microservices based J2EE Architecture.
* Worked as part of the Microservices team to develop and deliver Maven projects to deploy on Jenkins CI/CD and also having experience in managing the Docker containers in Kubernetes.
* Deployed Spring Boot-microservice Docker Container using AWS EC2 Container Services & AWS Admin Console.
* Developed a business continuity plan for the SQL Server Databases using JDBC drivers.
* Wrote Python scripts to manage AWS cloud formation templates to automate installation of auto scaling, AWS cloud (EC2,S3,Lambda). Created Proxies in AWS Lambda for backend APIs for faster response, better accessibility.
* Manipulated data using CRUD operations of MongoDB, NoSQL DBMS handled database access using NodeJS. Used Jenkins and pipelines to drive all Microservice authentication builds out to Docker registry.
* Used Apache Kafka for asynchronous exchange of vital information between multiple business applications.

**Environment:** Java 1.8/8/11, Spring MVC, Spring Boot, Microservices, Kafka, Rest, SOAP, Swagger, SonarQube, AWS, PCF, Jenkins, Docker, Kubernetes, CI/CD, ReactJS, Node JS, NPM, Angular 8/9/10,15,16, JIRA, Hibernate, MongoDB (NoSQL), HTML5, CSS3, Selenium, GIT, JBOSS, Selenium, JavaScript, XML, SOAP, JUnit, Mockito, Jira, Maven, Agile.

**S&P Global, ON Jan 2023 to Aug 2023**

**Java/Fullstack Developer**

**Responsibilities:**

* Used Spring MVC for implementing Model-View-Controller (MVC) architecture at the Web tier level to isolate each layer of the application. And new Java 1.8 features like Lambda expressions, Streams, and Functional Interfaces.
* Used Java collection API with Java 1.8 features. Spring security is used for Authentication and authorization.
* Used ReactJS to create Controllers to handle events triggered by clients and send request to server.
* Used ReactJS with Redux to create a single page web application with efficient data flow between the client and server and used to create Controllers to handle events triggered by clients and send request to server.
* Used ReactJS virtual DOM instead of regular DOM for improved efficiency and performance.
* Used ReactJS to create views to hook up models to the DOM and synchronize data with server as a Single Page Application (SPA). Designed Frontend within object-oriented JavaScript Framework using ReactJS.
* Developed web applications using latest JavaScript ES6 features and frameworks such as React and Redux.
* Used ReactJS features to run the server and rendering the virtual DOM, returning to the browser as a regular page.
* Used NodeJS to sign up for lightweight web server to hos application locally. Used NPM to manage dependencies like adding dependencies, removing some and updating package.json.
* Ensured processes are aligned with CMMI Level 3 and Six Sigma requirements and Developed and delivered training programs on CMMI Level 3 practices and Six Sigma methodologies.
* Have defined EDD for the events that are relevant to your application. These events can be user interactions, system notifications, or data changes.
* Implement EDD mechanism for communication between event sources and event handlers. You can use event buses, message brokers, or other event communication patterns to facilitate this.
* Responsible for overseeing the implementation of CMM practices within the organization.
* Used Spring Boot which is radically faster in building cloud Microservices and develop spring-based application with very less configuration. Used JSP and JSTL Tag Libraries for developing User Interface components.
* Used spring boot- microservices to interact with a combination og REST and Apache Kafka message brokers.
* Implemented Spring Circuit breaker pattern, integrated Hystrix dashboard to monitor Spring microservices.
* Developed Spring boot services with React JS as frontend to form microservice architecture.
* Developed microservices architecture using Rest APIs, spring boot and pivotal cloud foundry (PCF).
* Implemented Spring Boot Microservices to divide the application into various sub modules.
* Used React JS for UI using sorting, pagination and rendering for searching the statements on the webpage.
* Implemented modules into Node.JS to integrate with designs and requirements.
* Analyzed the Node JS server structure in legacy project, then REST service by using java JAX-WS API and did the corresponding configurations. Created set of classes using DAO pattern to decouple the business logic and data.
* Implemented AWS solutions using E2C, S3, RDS, and Auto-scaling groups.
* Built application and database servers using AWS EC2 and use RDS for Oracle DB.
* Configured, and maintained all network, load balancers, operating systems, and software in AWS EC2.
* Built scripts on AWS cloud for scheduling EC2 auto-scaling load balancer with Java SDK.
* Implemented AWS solutions using DynamoDB, EBS, and Elastic Load Balancer.
* Configured custom metrics for the AWS Cloud Watch for detailed monitoring.
* Used HTML, CSS, React.JS to develop and customize the User Interface to show the reports in various dimensions.
* Implemented Swagger for the microservices for Documenting Rest APIs.
* Used Spring-boot-starter-parent as the parent POM and inheriting sensible default settings from Spring Boot and the spring-data-Mongodb dependency provides integration with the MongoDB.
* Implemented SOA to develop REST Based Web services using Apache Tomcat.
* Implemented and used Rest Web Services with the help of JAX-RS to get updates from the third parties.
* Used Spring ORM Hibernate Template as the ORM tool to communicate with the database.
* Extracted data from DB using SQL Queries, PL/SQL stored procedures, triggers, packages on oracle DB.
* Implemented Log4J for Logging Errors, debugging and tracking using loggers, appenders components.
* Used Object/Relational mapping tool Hibernate and JPA to achieve object to database table persistency.
* Created plugins to extract data from multiple sources like Apache Kafka, Database and Messaging Queues.
* Responsible for installation & configuration of Jenkins to support various Java builds and Jenkins plugins to automate continuous builds and publishing Docker images to the Nexus repository.

**Environment:** Java 1.8, Spring, Spring Boot, Microservices, Azure, PCF, Hibernate, Swagger, React.js, Redux, Flux, Bootstrap, Node JS, HTML5, CSS3, JavaScript, JMS, DAO, Rest, Web-Logic, EJB, JSON, AJAX, Apache Tomcat, SQL, PL/SQL, Oracle, MongoDB, Windows, Docker, Jenkins, Kafka, Agile.

**ADP,India Nov 2019 to Dec 2022**

**Java FullStack Developer**

**Responsibilities:**

* Implemented microservices to separate tasks, remove dependency on other on-going tasks of same Application. Also, Implemented Microservices using Spring boot, Service Oriented Architecture (SOA) with XML (SOAP).
* Developed Microservices using SpringBoot v2, Spring Data With JPA, Oauth2, Spring Security and deployed on to Kubernates and integrated Microservice with Kafka MQ.
* Developed web applications using latest JavaScript ES6 features and frameworks such as React and Redux.
* Used ReactJS features to run the server and rendering the virtual DOM, returning to the browser as a regular page.
* Involved in transpiling, bundling and developing React components for the partner homepages using ReactJS.
* Used React flux to polish the data and for single directional flow and Used Redux Async actions to make the app fully asynchronous. Maintained states in the stores and dispatched the actions using redux.
* Created Reusable component using React and wired them installing great router.
* Developed single page applications using ReactJS, Typescript, Jquery, HTML5, CSS3, and Bootstrap.
* Involved in developing messaging module by using Spring JMS, Apache Camel and Rabbit MQ.
* Implemented AngularJS Controllers to maintain each view data. Implemented Angular Service calls using Angular Factory tested all application controllers extensively with AngularJS built-in testing facilities.
* Created standards and patterns for deploying a spring boot data microservice architecture to PCF.
* Involved in using Spring Security Module by utilizing its Site Minder, OAuth 2.0 Configuration, OpenID Connect for Enterprise Application Authentication and Authorizations.
* Have defined EDD for the events that are relevant to your application. These events can be user interactions, system notifications, or data changes.
* Implement EDD mechanism for communication between event sources and event handlers. You can use event buses, message brokers, or other event communication patterns to facilitate this.
* Used MVC to incorporate the AngularJS to build client-side application and Node.js for building server-side API's.
* Performed Angular JS end-to-end testing using protractor and integrated testing, BDD using Selenium, Cucumber.
* Used Rabbit MQ to report failure of connectivity between Quad instance and other components in Cluster.
* Implemented SOA to develop Spring Restful/Microservices, Spring Eureka, Netflix, Ribbon for Services Discovery using Eureka. Created Microservices with Spring Cloud, Eureka Service Discovery, Spring Boot, REST webservices.
* Worked with AWS services like EC2 and elastic bean stack to create new environments as needed.
* Developed code using AWS SDK to interact with S3 service to store and retrieve documents.
* Worked for NoSQL, MongoDB to store, retrieve, manage details for Ethernet provisioning, customer order tracking
* Involved in TEST automation using selenium, cucumber, Jenkins, Karma, Jasmine.
* Developed APIs, tested using SOAP UI, Postman. Implemented Swagger for microservices to document Rest API.
* Involved in working with the QA to assist in writing test code and debugging the defects in the application.
* Build a CI/CD pipeline using Jenkins automation and GitHub repositories using web hooks plugin.
* Used Gradle for built automation, building, testing, publishing and deploying all dependencies from the repository.
* Worked with team to Implement SonarQube for code quality check and code coverage integrated them into Jenkins to achieve Continuous Integration.

**Environment**: Java, AWS, Spring MVC, Spring Boot, Microservices, Spring Security, PCF, Jenkins, CI/CD, AngularJS, Angular 5, Spring Beans, Spring Security, Servlets, JIRA, Hibernate, MongoDB, HTML, CSS, Selenium, Cucumber, JavaScript, JQuery, GitHub, XML, SOAP, TFS, Python, JUnit, Maven.

**EDUCATION:**

* Bachelors in Electronics & Communication Engineering, India
* Masters in Electrical and computer Engineering-Concordia University-Canada