**Java Full Stack Developer**

**ARAVIND THALAKATLA**

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**Profile Snapshot**

* Overall, 10+ years of experience in design, development, and maintenance of Full Stack Java/J2EE Developer in various domains like Finance/banking/Pharmaceutical/ Retail E-commerce/Trade sectors.
* Proficient in Java/J2EE, JavaScript, Struts, Spring, Angular 13, Node.js, EJB, web services, JSP, JDBC, XML, XSD, XSLT, RMI, XML Parsers (DOM and SAX), JAXP, JAXB, Maven, Log4j, Junit, Power Mockito, Java Beans, JNDI, SQL, PL/SQL, Oracle, Tomcat, JBoss, and Sybase.
* Proficient in modern front-end frameworks such as Angular 7/8/11/13/15/17, React, and Vue.js, with extensive hands-on experience leveraging these technologies to build interactive and responsive user interfaces.
* Skilled in JavaScript programming, including ES6/ES7 features, DOM manipulation, and asynchronous programming patterns, to create dynamic and engaging web applications.
* Experienced in implementing client-side state management using libraries like Redux, MobX, or context API, enhancing application performance and maintainability.
* Highly proficient in front-end build tools and package managers such as Webpack, Gulp, and npm, optimizing the development workflow and resource management.
* Experienced in implementing multi-threading in Java applications to enhance performance and concurrency, utilizing features such as threads, executors, and synchronized blocks to manage parallel execution of tasks.
* Extensive experience in developing web applications using various Spring frameworks such as Spring Boot, Spring Security, Spring Core, and Spring MVC.
* Proficient in application software design, development, debugging, testing, and implementation.
* Experienced in developing applications using the Model View Controller (MVC) architecture, utilizing Struts, JSP, and Servlets for application flow control in the Presentation/Web tier.
* Skilled in developing various modules using J2EE technologies such as Servlets, JSP, JDBC, and JNDI.
* Employed Core Java and its libraries for business logic in Java/J2EE web applications, utilizing Java 8 features such as Lambda expressions and resource classes.
* Skilled in developing applications using web servers like WebSphere, WebLogic, JBoss, and Apache Tomcat.
* Created and deployed Apache ANT/MAVEN scripts for seamless WAR/JAR file management in web applications.
* Demonstrated expertise in developing DAO implementation using Spring's Hibernate Template, seamlessly integrating Hibernate with Spring's ORM module for the persistence layer.
* Utilized Hibernate as the Object-Relational Mapping (ORM) tool to efficiently access persistent data from SQL Server, contributing to the design and optimization of database interactions.
* Proficient in writing Hibernate Query Language (HQL) for the persistence layer.
* Proficient in crafting use case diagrams, class diagrams, and database tables, and mapped relational database tables to object-oriented Java objects using Hibernate.
* Proficient in JavaScript and TypeScript, with hands-on experience in developing robust and scalable applications.
* Developed interactive and responsive user UI using JavaScript frameworks/libraries such as React.js, Angular, or Vue.js.
* Worked with Oracle, DB2, MySQL, SQL Server, MongoDB, and Cassandra, implementing PL/SQL backend logic.
* Proven ability to leverage Azure SDK for seamless cloud-native application development, including serverless architecture, App service, functions, and compute resources.
* Extensive experience with AWS services including Elastic Beanstalk, EC2, and AMI in a Linux environment.
* Proficient in deploying and managing applications on Google Cloud Platform (GCP), leveraging services such as Compute Engine, Kubernetes Engine, App Engine, and Cloud Functions.
* Proficient in technologies such as Spring Boot, Docker, and Kubernetes for building and managing microservices.
* Experience with Kubernetes for orchestration and management of microservices clusters.
* Extensive experience in setting up CI/CD pipelines using tools such as Jenkins, Bit Bucket, GitHub, Maven, and Nexus.
* Proficient in setting up CI/CD pipelines for Java apps using Azure Pipelines.
* Implementing end-to-end solutions with a strong focus on DevOps practices, security, and efficient Azure configuration.
* Experienced in deployment and orchestration of Java Full Stack applications within IBM Kubernetes clusters, ensuring efficient resource utilization and scalability.
* Proficient in testing frameworks such as JUnit, Mockito, Selenium, Cucumber, TestNG, JMeter, Spring Boot Test, and Karma, ensuring code reliability and maintainability throughout the development process.
* Experienced with IDEs like Eclipse, IntelliJ, NetBeans, and Sublime Text, as well as build tools like Maven and Gradle, and logging tools like Log4J.
* Experienced in the development of cross-platform mobile applications using frameworks such as React Native, leveraging Java expertise to ensure seamless integration with backend systems and optimal performance across diverse mobile devices.
* Experience in designing, developing, and implementing E-Commerce, and B2B applications using J2EE technology.

**PROFESSIONAL EXPERIENCE:**

**Lowe’s, Charlotte, NC. Sep 2021 – Present.**

**Role: Full Stack Java Developer**

**Responsibilities:**

* Engaged in requirement analysis, design, and development following Agile methodology for React applications.
* Developed user interfaces using React.js, HTML5, CSS3, and styled-components for modern and responsive designs.
* Utilized React components, hooks, and Redux for managing state and handling asynchronous operations effectively.
* Integrated Axios or Fetch API within React applications to make HTTP requests and interact with backend RESTful APIs.
* Implemented forms in React, utilizing controlled components and form libraries like React Hook Form for data handling and validation.
* Designed and implemented state management using Redux for maintaining a centralized state and enabling predictable data flow in React applications.
* Experienced in building RESTful APIs and client-server communication using JavaScript/TypeScript with Node.js.
* Developed full-stack applications using the MERN (MongoDB, Express, React, Node.js) Stack, leveraging React for frontend development and integrating with backend services.
* Implemented the shopping cart functionality in Lowes' e-commerce platform using React, enabling users to seamlessly add, remove, and update items in their cart with an intuitive user interface.
* Leveraged Kubernetes for orchestrating and managing microservices in an e-commerce site development project at Lowe's, optimizing the scalability and deployment efficiency of the application.
* Designed and developed a website application using Spring Boot, Hibernate, MVC framework, and RESTful APIs.
* Implemented Rest-based web service using JAX-RS annotations, and Jersey provider implementation.
* Utilized Kafka Connect for in-app notifications in Lowe’s e-commerce platform, improving communication efficiency.
* Integrated Apache Kafka with Lowe’s notification system using Amazon SES and SMS gateways, and implemented OAuth 2.0 with RBAC for secure authorization in Lowe's e-commerce application.
* Implemented Hibernate Object Relational Mapping (ORM) for mapping Java classes and database tables.
* Used Java Persistence API(JPA) along with Hibernate Framework to implement Test classes.
* Designed and developed various modules of the application with J2EE design architecture and frameworks like Spring MVC architecture and Spring Bean Factory using IOC, and AOP concepts.
* Implemented Java Collection API, multithreading, and design patterns.
* Used MicroServices architecture with Spring Boot-based service through REST.
* Leveraged MongoDB Atlas for NoSQL data storage, ensuring high availability and low-latency access for dynamic applications, while also integrating with Amazon S3 for efficient object storage capabilities.
* Designed and implemented scalable and secure AWS infrastructure for hosting web applications, leveraging services like EC2, VPC, and Route 53.
* Built serverless applications with AWS Lambda and API Gateway to reduce operational overhead and optimize costs.
* Implemented AWS Step Functions to orchestrate and automate complex workflows within the serverless architecture.
* Utilized AWS Elastic Container Service (ECS) and AWS Fargate for container orchestration, enabling efficient deployment and management of microservices.
* Using the Micro Services architecture, introduced Restful Webservices to access data from the client side.
* Developed and implemented several test cases using the JUnit framework.
* Conducted tests for React applications using Jest and React Testing Library, ensuring thorough testing of components.
* Used Log4j to capture the log that includes runtime exceptions and for logging information which is useful for debugging.
* Used GIT for version control and used IntelliJ as the IDE for developing the application.
* Involved in code reviews and responsible for fixing bugs.
* Led the development of cross-platform mobile applications using frameworks such as React Native.

**Environment:** JDK 1.8, HTML5, CSS3, Java, JavaScript, TypeScript, jQuery 3.6.0, Bootstrap, JSON, Reactjs, AJAX, Jasmine, RxJS, NgRx, Jest, Spring, REST, Spring Boot, Hibernate, MongoDB, MicroServices, JPA, RESTful, AWS (EC2, ECS, EKS, S3, Tomcat, Maven, Jenkins, Kubernetes, Log4J, GitHub, JUnit, jQuery, IntelliJ.

**American Association of Motor Vehicle Administrators (AAMVA)Arlington, VA. Feb 2020 to Aug 2021.**

**Role: Full Stack Java Developer**

**Responsibilities:**

* Led the development and deployment of a modernized vehicle registration portal for AAMVA, utilizing Java, Spring Boot, and Angular to enhance user experience and streamline registration processes.
* Collaborated with AAMVA stakeholders to gather requirements and developed a scalable driver's license verification system using Java technologies like Spring Boot and MongoDB, deployed across multiple jurisdictions.
* Developed dynamic, cross-browser-compatible web applications using Angular 8, TypeScript, HTML5, CSS3, and Bootstrap, applying Angular's component-based architecture for modular and maintainable code.
* Developed authentication services in Node.js, initially using LDAP, and later transitioning to a Single Sign-On (SSO) solution with Angular and Ping Access for enhanced security and streamlined user authentication.
* Implemented Angular components, services, animations, and custom directives to enhance user experience. Leveraged Angular's change detection mechanism and optimized rendering for improved performance.
* Implemented Java EE components using Spring Boot, Spring IOC, Spring transactions, and Spring security modules and used Spring Framework Modules Spring Data and AOP.
* Migrating existing applications into REST-based Microservices to provide all the CRUD capabilities using Spring Boot.
* Designed and developed a website application using Spring Boot, Hibernate, MVC framework, and RESTful APIs.
* Secure REST API by implementing an OAuth2 token-based authorization scheme using spring security.
* Worked with Spring Features like Spring DAO, Spring Boot, and Spring Batch.
* Used Spring Dependency Injection, Annotation, and components to implement the business layer.
* Implemented Hibernate Object Relational Mapping (ORM) for mapping Java classes and database tables.
* Used Java Persistence API(JPA) along with Hibernate Framework to implement Test classes.
* Used RabbitMQ for Messages and routed through exchanges before arriving at queues and for typical routing logic.
* Used Jenkins to automate the build and deploy process.
* Leveraged ElasticSearch, Kafka, Flume, MongoDB, and Cassandra in developing the modernized vehicle registration portal for AAMVA.
* Configured the Docker containers using Kubernetes and developed the test environments on Docker containers.
* Involved in Cassandra cluster administration, including node commissioning/decommissioning, capacity planning, performance tuning, monitoring, and troubleshooting.
* Developed spark streaming jobs to stream the data from Kafka topics and perform transformations on them.
* Deployed and managed applications on Microsoft Azure using services such as Azure App Service, Azure Functions, and Azure Kubernetes Service (AKS).
* Implemented Infrastructure as Code (IaC) using Azure Resource Manager (ARM) templates and Terraform for automated provisioning and configuration of Azure resources.
* Designed and implemented CI/CD pipelines using Azure DevOps for automated build, test, and deployment processes.
* Utilized Azure Storage services (Blob Storage, Azure SQL Database, Cosmos DB) for data storage and management in cloud-based applications.
* Used log4j to print logging, debugging, warning, and info statements.
* Implemented Selenium WebDriver and Protractor for automated testing of Angular UI components, ensuring functionality and responsiveness across different browsers and devices.
* Orchestrated test automation by configuring Cucumber feature files for Java backend testing, utilizing Selenium with TestNG to automate end-to-end testing of RESTful APIs and backend services.
* Used GIT as version control management and for code commits and used Eclipse IDE to develop the project.
* Deployed web application components on the Tomcat server for development and test environments.
* Contributed to the development of the mobile application, utilizing Java and related technologies to ensure seamless functionality and security across Android and iOS platforms.
* Involved in sprint planning, and estimation of time for the user stories, participated in retrospective meetings, and presented demos at the end of a sprint.

**Environment:** JDK, J2EE, Angular 8, Typescript, Spring MVC, Azure, Spring Boot, Spring Security, Microservices, MongoDB, Hibernate, Postman, Amazon Web Services, Docker, Jenkins, Kubernetes, Kafka, PL/SQL, GIT, Apache Tomcat 8 Server, Maven, Log4J, Eclipse.

**Edward Jones, St. Louis, USA. May 2018 to Jan 2020.**

**Role: Full Stack Java Developer**

**Responsibilities:**

* Developed dynamic web pages for Edward Jones using HTML5, CSS3, jQuery, Bootstrap, SASS (CSS preprocessor), and AJAX to enhance user interface and interactivity.
* Implemented React components, hooks, and utilities at Edward Jones to manage application functionality, transitioning from Angular 7 Controllers, Directives, Services, and filters to improve performance and maintainability.
* Leveraged React's JSX syntax and custom components to create reusable and dynamic HTML elements for data binding.
* Utilized React to build single-page application views, synchronizing data between models and the DOM efficiently.
* Utilized Core Java concepts like Collections, Multithreading, and Exception handling to develop business components.
* Utilized Multithreading with the Singleton design pattern in a Hibernate Utility class to improve performance.
* Developed application on Spring framework by utilizing its features like Spring Boot, Spring Dependency injection, Spring Beans, Spring Security, Spring JPA, and Spring Web flow using MVC.
* Utilized Spring Core for managing and utilizing Spring Beans within the application environment at Edward Jones.
* Implemented REST API endpoints using JAX-RS to provide services for web and mobile applications.
* Developed RESTful API services at Edward Jones supporting XML and JSON formats for web and mobile integration.
* Documented the REST APIs using Swagger2 API for briefing the services involved in the application.
* Worked with MuleSoft connectors to integrate with various systems and platforms, such as databases, and RESTful APIs.
* Implemented Cross-cutting concerns like logging and declarative transaction management using Spring AOP.
* Used spring batch framework to create custom readers and writers to work with the application.
* Used Hibernate in the data access layer to access and update information in the database and used HQL to query the database for complex data.
* Used Spring framework with Hibernate to map to Oracle database and mapped using Hibernate Annotations.
* Designed and implemented MuleSoft API policies for security, governance, and access control.
* Configure and manage Kafka topics, producers, and consumers for event-driven architectures.
* Design and implement Kafka-based solutions for real-time data processing and stream processing.
* Implemented ODBC which is used for connecting to the database Oracle.
* Supported all core web services technologies including Web Service Description Language (WSDL).
* Integrated third-party APIs and services, such as contact forms, newsletter subscriptions, and social media sharing functionalities, leveraging Java libraries and frameworks for seamless integration and functionality.
* Integrated testing methods were implemented by using Karma and Jasmine.
* Good Experience with Continuous Integration and Continuous Delivery by using tools like Jenkins.
* Actively contribute to AWS support forums, focusing on AWS Networking, EC2, IAM, and Amazon S3, for the AWS Developer Network, encompassing Partners and MVPs.
* Led migration to AWS using AWS Server Migration Service & Database Migration Service. Implemented AWS API management for backend operations & data persistence.
* Used AWS deployment services to quickly set up a dynamic website and configured virtual servers.

**Environment:** SOA, HTML, CSS- SaaS, AJAX, Angular 7, REST, JAX-RS, Jersey, Kafka, Swagger, Hibernate, React, Spring, Spring Batch, WSDL, Spring AOP, Mule Soft, Oracle DB, Karma, Jasmine, Jenkins, AWS, JWT.

**Ryder System Inc., Miami, FL. Sep 2016 to Apr 2018.**

**Role: Full Stack Java Developer**

**Responsibilities:**

* Developed User Interface view with AngularJS as a Service Oriented Architecture (SOA) application.
* Used HTML5, CSS, jQuery, and Ajax and performed client-side validations using JavaScript.
* Implemented AngularJS as the framework to build a single-page application (SPA).
* Created responsive UI modules using Backbone.JS, Handlebar JS, and Ember JS.
* Updates data using CRUD (Create, read, update, delete) features of Backbone.JS and Paginator for pagination for Tables.
* Grunt is used for the Minification of JavaScript files, compilation of SAAS files into CSS, and monitoring the application.
* Implemented jQuery UI plugins (Draggable, Resizable, Autocomplete) and utilized AJAX and JSON with AngularJS to develop interactive web pages.
* Implemented Multithreading for handling multiple requests and for high performance.
* Developed RESTful services based on Spring REST using the Jersey framework.
* Implemented Internationalization using Spring MVC Interceptors, Spring core modules, and native Spring AOP facets of Logging and transactional management.
* DB2 database is used to load the application data and write PL/SQL procedures, and complex queries to perform various data operations.
* Implemented Hibernate Criteria queries and ORM mappings for Java entity-to-database table relationships.
* We kept up the bean life cycle by utilizing Spring IOC which keeps up session information of beans.
* Implemented persistence layer using Hibernate that uses the POJOs.
* Configured multiple data sources using Hibernate Session Manager.
* Implemented Hibernate Template to a great extent making use of HQL, Named Parameters, Named Queries, and interfaces such as Expression, Query, and Criteria.
* Developed SOAP web services using JAX-WS and persistence using Hibernate and JPA framework.
* Developed Spring Batch processes for financial reporting applications.
* Implemented Spring Dependency Injection (IOC) feature of spring framework to inject beans into the User Interface and AOP for Logging.
* Used Spring Security framework for login authentication, and password hashing. Worked on Java Message Service (JMS) API for developing message-oriented middleware (MOM) layer for handling various asynchronous requests.
* Implemented Quartz scheduler to execute batch programming using Spring Batch.
* I configured Jenkins to handle application deployment in the Pivotal Cloud Foundry (PCF) server and to integrate with Git Hub version control.
* Implemented Azure Active Directory (AAD) for secure authentication and authorization of users and applications.
* Implemented disaster recovery and high availability solutions using Azure Site Recovery (ASR) and Azure Load Balancer.
* Collaborated in cross-functional teams to architect and deploy scalable and resilient cloud solutions on Microsoft Azure.
* Build a CI/CD pipeline using Jenkins automation and GitHub repositories using the Webhooks plugin.
* Conducted end-to-end Angular JS testing with the Protractor framework. Implemented integration and behavioral testing methodologies with Selenium and Cucumber.
* JIRA tool for project management used in the application to track bugs, issues, and project management functions.

**Environment:** Angular JS, HTML5, CSS3, AJAX, Bootstrap, JSON, XML, JMS, Hibernate, DB2, SOAP services, JAX-WS, JPA Framework, Spring Rest, Spring MVC, Spring Security, Hibernate, Spring Transactions, Spring Batch, Quartz scheduler, Spring IOC, Mule ESB, Jenkins, Git, DB2, Pivotal Cloud Foundry(PCF) server, Jenkins, Protractor, Grunt, Selenium, Cucumber, JIRA.

**Capital One, VA, USA. Feb 2015 to Aug 2016.**

**Role: Java Developer**

**Responsibilities:**

* Designed User Interface (UI) web applications using web technologies like HTML5, HTML DOM, DHTML, XHTML, XML, XSL, XSLT, and CSS3 based on W3C standards. Wrote custom JavaScript utilizing jQuery to enhance the theme, and set up a server to handle a greater number of page requests.
* Build data-driven applications for the enterprise using the Prime Faces Java server Faces UI framework.
* Created views using components of JSF Prime Faces in XHTML files and configured JSF framework.
* Extensively used Java Server Faces (JSF) Navigation rules and JSF tags for enhanced user Interface.
* Implemented data access logic by using the Hibernate Persistence framework to enable the persistence mapping between Java objects and RDBMS.
* Implemented Multi-Factor Authentication (MFA) using Amazon SES, and Oath-client libraries to add additional security beyond passwords.
* Utilized the JAX-WS framework to develop SOAP web services.
* Wrote Web Services using SOAP for sending and getting data from the external interface.
* Used Spring Batch to build the POJO-based development approach of the Spring Framework.
* Used various Core Java concepts such as Exception Handling, Multithreading, and Collection APIs to implement various features and enhancements.
* Used Collections extensively to store, retrieve, and manipulate objects in the business logic layer.
* Involved in using JPA (Java Persistence API) frameworks and APIs such as JDO (Java Data Objects) and Hibernate.
* Worked on Hibernate persistence tier. This involves developing mapping files and Hibernate (POJOs/ DAOs).
* Developed UNIX Shell Scripts for batch jobs to transfer data on different servers.
* Implemented Spring AOP for providing proxies.
* Used Spring Security to develop the Login and Logout features of the application.
* Implemented Spring Security for posing security constraints on JSF UI page views.
* Used Maven as a build tool and Jenkins for monitoring the build status of the project.
* Developed Unit Test Case for UI Screens using Jasmine and Karma.

**Environment:** HTML, XHTML, CSS, JavaScript, jQuery, Java Server Faces (JSF), Jasmine & karma, Gulp, JSP, Spring AOP, Spring Bean, Spring Annotation, Spring Security, Hibernate, RDBMS, SOAP, JAX-WS, RDBMS, Junit, Log4j.

**AbbVie, Chicago, IL. Oct 2013 to Jan 2015.**

**Role: Java Developer**

**Responsibilities:**

* Developed UI components utilizing JSP, HTML, CSS, and JavaScript.
* Addressed production support issues and contributed to the enhancement of existing applications, employing JSP, Servlets, and the Struts framework.
* Designed and implemented responsive user interfaces using JavaFX for desktop applications.
* Conducted unit testing and integration testing using JUnit and Mockito to ensure code quality and reliability.
* Ensured client and server-side data validation using JavaScript and Struts validate plug-ins to maintain data integrity.
* Employed Java Collections API for seamless data handling between business layers and frontend components.
* Implemented Multithreading to enhance application performance and manage concurrent requests efficiently.
* Developed stored procedures and scheduled jobs to generate reports tailored to AbbVie's business requirements.
* Managed SQL scripts, indexes, and complex queries for data analysis and extraction to support AbbVie's data-driven decision-making processes.
* Created SQL Server Database continuity plan for AbbVie, utilizing JDBC drivers for failover and recovery.
* Integrated Spring for Dependency Injection, enabling seamless integration of Hibernate DAO objects.
* Configured Hibernate mappings in XML for efficient data mapping between Hibernate and SQL database.
* Implemented web services to facilitate seamless data exchange between AbbVie's applications.
* Leveraged JDBC for Oracle database access to retrieve and manage customer information security.
* Utilized ANT-built tool for compiling and deploying application artifacts, ensuring smooth deployment processes.

**Environment:** HTML, CSS, JSP, JavaScript, Servlets, JMS, JDBC, SQL, DAO, JUnit, Mockito, Web Services, Oracle, ANT.

**EDUCATION**

* **Master of Science - Computer Science DEC 2013.**

 Wilmington University, New Castle, Delaware

* **Bachelor of Technology - Computer Science MAY 2012.**

 Jawaharlal Nehru Technological University Hyderabad, India.