**Ramya Sri**

*Java Full Stack Developer*

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**Professional Summary**

* **Java Full Stack Developer** with **11+ years** of experience in designing, developing, and deploying scalable, high-performance web and enterprise applications using **Java/J2EE, Spring Boot, Microservices, and modern front-end frameworks like Angular and React**.
* Expertise in **Agile methodologies, cloud solutions (AWS), CI/CD pipelines**, and secure API development**.**
* Strong foundation in multi-tiered distributed architectures, **Object-Oriented Programming (OOP), Object-Oriented Analysis and Design (OOAD), and Service-Oriented Architecture (SOA).**
* Well-versed in **Agile (Scrum) and Waterfall methodologies**, including **Test-Driven Development (TDD).**
* Proficient in **Core Java**, covering Collections API, Stream API, Parallel Streams, Exception Handling, Multi-Threading, Concurrency, Generics, Java I/O, JDBC, HashMap, Executor Service, Fork/Join Frameworks, and Modularity.
* Adept at utilizing **Java 11 features**, such as Parallel Streams, Lambda Expressions, Functional Interfaces, and Stream API, while applying design patterns like Singleton, Factory, DAO, MVC, and Front Controller.
* Skilled in **UI development**, crafting responsive and interactive web applications using **HTML5, CSS3, JavaScript, TypeScript, jQuery, Bootstrap, AJAX, Angular (2+ to 8), React.js, Vue.js, Ext JS, and Backbone.js**.
* Deep understanding of the **React ecosystem**, including Redux, React-Bootstrap, Material-UI, Styled Components, Flux architecture, routing, animations, and event handling.
* Hands-on involvement with **Angular Directives**, Services, Factories, Filters, and built-in components to enhance UI functionality.
* Specialized in **microservices** using **Spring Boot**, **Spring Cloud (Netflix OSS – Zuul, Eureka, Ribbon, Hystrix), implementing domain-driven design (DDD) principles.**
* Strong knowledge of **Spring Framework (Spring Boot, Spring MVC, Spring Core, Spring Data, Spring JDBC, Spring DAO, and Spring Security)**, incorporating **OAuth 2.0 and JWT** authentication for secure API access.
* Extensive background in **RESTful and SOAP-based web services**, leveraging JAX-RS, JAX-WS, Apache CXF, and Spring Web Services.
* Skilled in **ORM frameworks, utilizing Hibernate** (HQL, connection pooling, transaction management) and **Spring Data JPA** for efficient data persistence.
* Well-versed in **SQL and PL/SQL**, writing optimized queries, stored procedures, triggers, and indexing for enhanced database performance.
* Familiar with **NoSQL** **databases**, including **MongoDB, Cassandra, and HBase,** for handling large-scale data.
* Competent in **Amazon Web Services (AWS)**, working with **EC2, S3, VPC, RDS, Route 53, Lambda, Auto Scaling, Elastic Search, CloudWatch, and CloudFormation.**
* Skilled in **containerization and orchestration**, deploying applications with **Docker and Kubernetes.**
* Strong background in **message queues,** including **Apache Kafka, RabbitMQ, ActiveMQ, and IBM MQ** for distributed messaging and event-driven architectures.
* Well-versed in **Spring Integration and Apache Camel** for seamless enterprise application integration.
* Hands-on expertise in testing frameworks, including **JUnit, TestNG, Mockito, Spring JUnit Runner, JMeter, Jasmine, and Karma**.
* Proficient **with Maven and Gradle** for build automation, testing, and deployment, alongside **Log4j** for logging and debugging.
* Well-acquainted with **IDE tools**, such as **Eclipse, IntelliJ, and NetBeans**, for streamlined Java/J2EE development.
* Strong grasp of web and application servers, working with **Apache Tomcat, Jetty, WebLogic, JBOSS, and IBM WebSphere.**
* Skilled in **Unified Modeling Language (UML),** developing Use Case Diagrams, Sequence Diagrams, Class Diagrams, and Activity Diagrams.
* Hands-on experience with version control tools, including **Git, GitHub, and TortoiseSVN.**
* Familiar with **JIRA** for DevOps, project tracking, and task management.
* Problem-solver with exceptional analytical skills, strong communication, and a collaborative mindset for teamwork and project execution.

**Skills**

**• Programming & Frameworks:** Java 8/11, JavaScript, TypeScript, SQL, PL/SQL, MuleSoft

**• Frontend Technologies:** Angular 2+, React.js, Redux, Vue.js, Bootstrap, jQuery, HTML5, CSS3

**• Backend Frameworks:** Spring Boot, Spring MVC, Spring Cloud, Hibernate, Node.js, Express.js

**• Web Services:** RESTful APIs, SOAP, OAuth 2.0, JWT Authentication

**• Data bases :** Oracle, MySQL, SQL Server, PostgreSQL, MongoDB, Cassandra

**• Cloud Technologies:** AWS (EC2, S3, RDS, Lambda, IAM, CloudWatch, CloudFormation)

**• Microservices & Messaging:** Kafka, RabbitMQ, ActiveMQ

**• DevOps & CI/CD:** Docker, Kubernetes, Jenkins, GitHub Actions, Maven, Gradle

**• Testing & Logging:** JUnit, TestNG, Mockito, Log4J, Jasmine, Karma

**• Version Control:** Git, GitHub, Bit Bucket, SVN

**• Methodologies:** Agile, Scrum, TDD, BDD

**• Tools & IDEs:** IntelliJ IDEA, Eclipse, VS Code, Postman, JIRA

**• Operating Systems:** Windows, Linux, MacOS

**Professional Experience**

**Full Stack Developer**

*Bank of America, TX | Oct 2022 – Present*

* Involved in various phases of the **Software Development Life Cycle (SDLC),** including requirements gathering, design, development, and enhancements using Agile methodologies.
* Developed and deployed **Microservices-based applications** using **Spring Boot and Spring Cloud,** ensuring modular and scalable architecture.
* Utilized **Java 11 features** like Lambda expressions and Stream API to perform bulk data operations on collections, enhancing application performance.
* Designed and developed **REST APIs** using **Spring Boot, Hibernate, and JPA** to facilitate efficient communication between services.
* Developed **single-page applications (SPAs)** using **React.js,** ensuring smooth data binding and synchronization with the backend.
* Implemented **React Virtual DOM** for optimized client-side rendering and React-Redux for efficient state management.
* Created reusable **JavaScript components** and services to consume **REST** **APIs** using **React’s** component-based architecture.
* Built responsive web pages using **HTML5, CSS3, Bootstrap, JavaScript, and jQuery** for seamless user experience.
* Worked on **Node.js** to run **Webpack tasks** and manage project builds effectively.
* Developed and deployed **Web APIs using Node.js** and hosted them on multiple load-balanced instances for scalability.
* Implemented **Spring Security** to secure applications and manage authentication/authorization mechanisms.
* Utilized **Apache Kafka** for asynchronous message-driven architecture in microservices communication.
* Implemented **Hystrix for Circuit Breaker patterns** to ensure system resilience in distributed architectures.
* Worked with **MongoDB** for handling unstructured **JSON** data and utilized Mongoose as the connector for database interactions.
* Deployed **Spring Boot-based Microservices** on **Docker** containers and managed them using **Amazon EC2** container services (ECS).
* Deployed **React-based applications to AWS** using **Docker and Kubernetes**, leveraging AWS EKS and ECR for container orchestration and image management.
* Worked extensively with **AWS services, including S3 for storage**, **IAM** for authentication, Lambda for event-driven processing, and **Code Commit** for version control.
* Developed **CI/CD pipelines** using Git, Maven, and Jenkins, streamlining continuous integration and deployment workflows.
* Conducted integration testing using **Postman** and performed unit testing with TestNG and Jest for backend and frontend testing.
* Implemented **Karma and Jasmine** for **UI testing** to ensure **React** components functioned as expected.
* Used JIRA for issue tracking, sprint planning, and project management in **Agile environments.**

**Full stack Java Developer**
*Telus International, TX | Oct 2021 – Oct 2022*

* Developed a web application following the **Software Development Life Cycle (SDLC**) from design to deployment while adhering to **Agile Scrum** methodology.
* Designed and implemented responsive user interfaces using **JavaScript, HTML5, CSS3, jQuery, Bootstrap, and Angular 7.**
* Built and validated reactive forms in **Angular 7,** ensuring seamless form validation and data integrity.
* Developed applications utilizing **Core Java concepts**, including OOPS, Collections, Multithreading, Concurrency, JDBC, and Exception Handling.
* Designed and developed **Spring Boot RESTful** services to interact with **PostgreSQL**, store logs in **AWS** **S3**, and integrate with other REST services.
* Implemented a serverless architecture using **AWS API Gateway, Lambda, and DynamoDB**, deploying AWS Lambda functions via Amazon S3.
* Configured **AWS CloudWatch** for monitoring and logging application activities across various AWS services.
* Created **Angular modules, routing (SPA),** and reusable components to enhance the application's scalability.
* Implemented **Spring IoC (Inversion of Control) / DI (Dependency Injection)** for managing application dependencies.
* Integrated **Spring Netflix Zuul API Gateway and Eureka Service Registry** for reverse proxy and dynamic service discovery of microservices.
* Used **Spring Security** for authentication and authorization, ensuring secure access control.
* Developed **JWT-based** authentication by implementing **Angular HTTP Client** interceptors for outgoing API requests.
* Migrated and enhanced Account pages using **Angular**, improving user menu management and implementing bulk attribute updates.
* Worked with **AWS EC2 and Jenkins** for continuous integration and deployment (CI/CD).
* Developed **Hibernate-based Data Access Objects (DAOs)** and used **JDBC** to interact with the database.
* Deployed and managed applications using **Apache Tomcat Server**.
* Created a **Node.js Express Server** combined with **Socket.io** to support MVC architecture, providing real-time broadcasting and chat functionalities.
* Wrote **SQL queries**, functions, triggers, and stored procedures in PL/SQL and HQL (Hibernate Query Language).
* Utilized **Maven** for building and managing application dependencies.
* Used **Git** for version control and collaborated with teams for source code management.
* Designed **NoSQL MongoDB** schemas to support sharding for horizontal scalability and efficient data retrieval.
* Performed **RESTful API testing** using Postman and SoapUI.
* Developed unit and integration test cases for **DAO**, Service, and Controller components using Mockito and Spring Test Support.
* Used **JIRA** for project management, bug tracking, and issue resolution.

**Full stack Java Developer**
*State of Maine, Augusta, ME | April 2020 – Sept 2021*

* Developed an application using **Spring Boot** for backend services and **Angular 6** with **TypeScript** for frontend development, ensuring a seamless user experience.
* Implemented **Agile Methodology**, including team-based design, iterative development, sprint planning, and code reviews to enhance collaboration and project efficiency.
* Enhanced Legacy Applications by designing and integrating new **Angular 6 components** and leveraging **TypeScript** to improve maintainability and performance.
* Developed and Validated **Angular Forms**, implementing form validations and leveraging Bootstrap for dynamic UI error, warning, and info messages.
* Utilized **Core Java Features**, including Collections API, Stream API, Parallel Streams, Exception Handling, Multi-Threading, Concurrency, and Functional Interfaces in Java 8.
* Designed Scalable Application Components using **Core Java, Multi-threading**, and Design Patterns like Factory Method, Abstract Factory, and Singleton while developing RESTful web services.
* Developed **Single Page Applications (SPA) using Angular 6**, implementing components, directives, dependency injection, and data binding for dynamic UI rendering.
* Implemented **AWS Services**, selecting appropriate AWS compute, storage, and security services, and setting up **Oracle RDS databases**, including **data migration using Data Pump.**
* **Built UI Components** using *jQuery, JavaScript, HTML, and CSS*, ensuring an intuitive and responsive user interface.
* Developed **Spring Boot Microservices**, utilizing **Spring Core, Spring Security, Spring Dependency Injection, Spring JDBC, and Spring MVC**, ensuring scalability and maintainability.
* **Utilized Hibernate ORM in** the Data Access Layer to interact with SQL databases efficiently.
* Wrote **SQL Queries and Procedures**, including **T-SQL stored procedures**, functions, triggers, and views, to optimize database operations in SQL Server.
* Debugged and Enhanced System Performance by adopting **Test-Driven Development (TDD)** and writing JUnit test cases to ensure application stability.
* Deployed **Applications on JBoss Web Server** and used **Jenkins** CI/CD pipelines to build and deploy WAR/EAR files from Git repositories.
* Managed **Agile Sprints** Using **JIRA**, tracking user stories, bugs, and project progress to ensure timely delivery of features.

**Full Stack Developer**

*AT&T, Phoenix, AZ | Nov 2018 – March 2020*

* Developed and maintained web applications using **Angular 4, Angular CLI, Webpack, HTML5, TypeScript, Node.js, SASS, and CSS3** for backend system integration.
* Integrated Amazon Web Services (AWS) with application infrastructure for cloud-based solutions.
* Utilized **Java 8 features,** including **Lambda Expressions, Functional Interfaces, and Stream API**, to enhance performance and code efficiency.
* Implemented responsive **UI components using Bootstrap,** including calendars, masks, uploaders, sliders, alerts, and modal dialogs.
* Developed **core Java functionalities** using **Java APIs** such as Collections, Multithreading, Exception Handling, Generics, and Concurrency for business logic implementation.
* Defined **Angular routes** using the Router module to enable lazy loading for modules and components.
* Implemented **Java EE components** using **Spring Boot, Spring IOC, Spring Transactions, and Spring Security.**
* Developed complex forms using **Angular 4 Reactive Forms** and performed validations using Form Builder.
* Applied **J2EE design patterns**, including Singleton and DAO, to develop scalable applications.
* Implemented **Object-Relational Mapping (ORM)** using **Hibernate** to interact with an Oracle database.
* Utilized **Node.js** as a runtime environment for application execution in the staging environment.
* Developed **RESTful** **web services** using the **Spring framework** and exposed data in **JSON** format to the UI.
* Designed and optimized **PL/SQL Stored** Procedures, Functions, Triggers, and Views for Oracle database operations.
* Configured **JBOSS** **application** server and integrated it with Hibernate ORM and Oracle database.
* Collaborated with the team to establish version control best practices, including appropriate branching, labelling, and naming conventions in **Git**.
* Created and maintained **Maven** build scripts for application deployment in WebLogic server.
* Implemented continuous integration and deployment **(CI/CD) pipelines** using **Jenkins** to deploy applications on AWS cloud.
* Utilized **JIRA** **for Agile project** tracking, managing stories, sprints, and issue resolution.

**Full Stack Developer**

*PepsiCo, NYC, NY | Sep 2017 - Oct 2018*

* Translated business requirements into detailed functional specifications and documented them in functional specification documents.
* Developed a **responsive web application** adhering to web and industry standards using **HTML5, CSS3, ReactJS, TypeScript, and JavaScript**, ensuring cross-browser compatibility.
* Implemented **Java 8 features** such as Streams, Lambda expressions, Method References, and Optional Classes to optimize code efficiency and readability.
* Extensive experience in **React concepts**, including functional and class components, hooks (useState, useEffect, useContext), context API, Redux for state management, React Router for navigation, React Suspense, Lazy Loading, and performance optimizations using memoization and useCallback/useMemo hooks.
* Designed and developed **RESTful microservices using Spring Boot**, facilitating seamless communication between distributed systems in a microservices architecture.
* Developed and optimized batch processing using **Spring Batch**, improving performance with multithreading and the Executor Framework for parallel task execution.
* Designed and implemented the persistence layer using **Hibernate ORM, writing HQL queries** and creating Hibernate mapping files for efficient database interactions.
* Developed **TypeScript-based** reusable components and hooks to consume **REST APIs**, following **React’s** **component-based** architecture and best practices.
* Utilized **Spring Dependency Injection (DI)** and Annotations to streamline the business layer and enhance application navigation.
* Developed **SQL queries**, stored procedures, and triggers using **PL/SQL** for complex business logic and database interactions with Oracle Database.
* Wrote **PL/SQL stored procedures**, functions, and cursors to perform CRUD operations and optimize data retrieval.
* Implemented **continuous integration (CI/CD) pipelines** using **Jenkins** and maintained **Git** for version control.
* Configured **Maven** for application builds and deployments and utilized **Log4J** for application logging and debugging.
* Applied **Behavior-Driven Development (BDD)** using **Cucumber** and **JUnit** for test automation and functional validation.
* Managed issue tracking and project workflows using **JIRA** for efficient bug tracking, reporting, and auditing.

**Full Stack Developer**

*Semantic Space, India| Mar 2015 to Aug 2016*

* Participated in the **SCRUM process of Agile methodology**, contributing to requirement gathering, design, analysis, and iterative code development.
* Developed responsive front-end interfaces using **AngularJS, TypeScript, HTML, CSS, and XHTML.**
* Created reusable TypeScript components and services to consume **REST APIs using Angular’s Component-based architecture.**
* Built dynamic web pages using **JSP, JSTL, and Struts Framework** for UI development.
* Implemented the **Spring framework** to build **Servlet/JSP-based** web applications following the Model-View-Controller (MVC) design pattern.
* Developed client-side functionality using **JavaScript** for enhanced user interaction.
* Utilized various **Spring MVC components**, including Handler Mappings, Controllers, View Resolvers, Multipart File Resolvers, Interceptors, Exception Resolvers, Locale Resolvers, Theme Resolvers, Annotations, and Validators.
* Implemented **Struts** **framework** components such as **Action Servlet** and Action Mapping for controlling application flow.
* Designed and developed database interactions using **Hibernate ORM**, writing configuration and mapping files to manage entity relationships.
* Developed the persistence layer using **Hibernate**, creating **POJOs** and mapping them with Hibernate annotations for transaction management.
* Designed data models and implemented database operations using **SQL and JDBC.**
* Implemented **OAuth authentication framework** to secure RESTful web services by generating access tokens for protected resources.
* Utilized **Service Locator and Singleton** design patterns to optimize web service interactions.
* Leveraged **Struts** tag libraries (Bean Tags, Logic Tags, HTML Tags) and custom tags for UI development.
* Managed version control using **GitHub** and implemented logging with Log4J.
* Automated builds and dependency management using Ant.
* Conducted unit, integration, and production testing using JUnit to ensure application stability.

**Java developer**

*Intergraph Corporation, India| Oct 2012 to Mar 2015*

* Analysed requirements, designed, and developed a **Java Server Faces (JSF)-based** application with **Spring MVC architecture.**
* Developed dynamic front-end interfaces using **HTML, CSS3, Bootstrap, JavaScript, and AngularJS**, enhancing user experience
* Implemented **Angular services and integrated RabbitMQ** message queues for decoupling and improving scalability.
* Utilized **Hibernate and Cassandra** for data storage, query optimization, and handling distributed large-scale datasets.
* Leveraged Oracle database with **PL/SQL procedures, Spring Cloud, and Microservices frameworks** for backend development.