**Sowmya Reddy**

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**Full Stack Developer**

**OBJECTIVE**

Accomplished IT professional with over 5 years of expertise in Java and J2EE technologies, specializing in the analysis, design, implementation, testing, and maintenance of applications. Demonstrated proficiency in managing comprehensive Software Development Life Cycles (SDLC), including Requirement Analysis, Project Planning, System and Database Design, and Object-Oriented Analysis and Design. Proven track record in developing, testing, implementing, and documenting large-scale applications. Highly skilled in orchestrating every phase of project development, ensuring the delivery of robust and efficient software solutions.

**PROFESSIONAL SUMMARY**

* Strong analytical and problem-solving abilities, adept at identifying and efficiently resolving complex technical issues to ensure smooth and optimal application performance.
* Competence in Web Services, SOA, Analysis, Design, Object modeling, Data modeling, Integration, Validation, Implementation, and Deployment, as well as J2EE and MVC design and implementation.
* Experience in developing server-side applications using Spring Framework like **Spring Boot**, **Spring MVC**, **Spring IOC**, **AOP**, **Spring Resources**, **Spring Data**, **Spring JDBC**, **Spring REST**, **Spring Security** and **Spring Transaction** and **Hibernate**.
* Extensive experience in designing, implementing, and testing within a **Microservice**-oriented architecture. Successfully developed **REST-based** Microservices using **Spring Boot** and **Spring Data**, integrated with Java Persistence API.
* Experience in developing Single Page Applications (SPA) using **JavaScript** MVC frameworks such as **Angular 12**, **React JS**, **Typescript**.
* Proficient in RESTful API development using **Spring Tool Suite**, with experience in testing using **Postman**.
* Expertise in **Kubernetes**, **OpenShift**, and **Argo CD** for containerized application deployment and management.
* In-depth experience with **Java 8+** features, including Streams API, Lambda Expressions, Functional Interfaces, Optional, and the Date/Time API, enhancing code efficiency and readability.
* Possess expert skills in **J2EE** Design Patterns, including **MVC** Architecture, Singleton, Session Facade, Factory, Abstract Factory, Business Delegate, and Data Access Object, for constructing robust and scalable **J2EE** applications.
* Proficient with multiple **relational** databases Oracle DB, Cassandra DB, and PostgreSQL; adept at using tools like DBeaver and SQL for database queries and optimization.
* Experienced in using build tools like **Maven**, **Gradle** and worked on source code repository tools like **GIT** and **SVN**.
* Experience working with **JSON** for data serialization and managing configurations like **PVC** in distributed systems.
* Adept in **Linux**, **shell** scripting, **Putty**, **WinSCP**, **IntelliJ IDEA**, Visual Studio, and **Corretto** for efficient development and operations
* Worked on **MVC** design pattern for codebase maintainability and employed microservices architecture on **AWS** with **Docker** and **Kubernetes** for horizontal scalability, enhancing system efficiency and reliability with fault-tolerant mechanisms like circuit breakers and retries.
* Utilized **JUnit** and **Mockito** together to create and execute detailed test cases for **Kafka** consumers and producers, ensuring seamless message handling and processing.
* Adept at utilizing AWS services, including **S3**, and **Lambda**. Possess a strong background in **CI/CD pipelines**, **Agile** methodologies.
* Experience in installings, configuring, and tuning **Apache Tomcat**, **WebLogic**, and **WebSphere**.
* Well versed in using Software development methodologies like **TDD**, **Agile** methodologies like **Scrum** or **Kanban**, and **Waterfall** **software** development processes.

**Education**

* Bachelors in computer science and engineering, Osmania University, 2020
* Masters in computer science, University of North Texas, 2023

**TECHNICAL SKILLS**

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| **Languages** | Java 11, Java 8, PL/SQL, JavaScript, TypeScript |
| **J2EE Technologies** | Servlets, JDBC, JSP, JSF, EJB, Java Security |
| **Mark-up/Web**  **Technologies** | HTML5, CSS3, JavaScript, jQuery, AJAX, Angular 12/13, React.JS, Vue.JS, Node.JS, Require.JS, JSP, JSTL, XML, XSD, XSL/XSLT, SAX/DOM, JSON. |
| **Tools & Framework** | Struts, Spring, Hibernate, Spring MVC, Spring Web Flow, Spring IOC, Spring AOP,  Spring Boot, Micro Services, ANT, Maven, Jenkins |
| **Web services** | SOAP, Restful, UDDI, WSDL, JAX-RPC, JAX-RS, JAX-WS |
| **Web/App Servers** | IBM Web Sphere, Apache Tomcat, JBoss, Web Logic Server |
| **Database** | Oracle, My SQL, PostgreSQL, Mongo DB, Cassandra DB |
| **IDEs** | Eclipse, IntelliJ, Spring Tool Suite (STS), RAD |
| **O-R mapping** | Hibernate, My Batis, Persistence API |
| **Version Control** | Git and Bitbucket. |
| **OS & Environment** | Windows Win2k Server, Sun Solaris, UNIX, Linux |

**WORK EXPERIENCE**

**Employer: Incedo Inc Sep to Present**

**Client: Verizon**

**Role: Java Developer**

**Responsibilities:**

* Collaborated with vendors like Samsung and Nokia to collect and process raw data using Kafka, ensuring seamless integration across various data pipelines.
* Designed and implemented parsers and decoders to transform raw data into meaningful formats, enabling efficient data processing and storage.
* Developed and executed 15-minute and hourly data aggregation pipelines to provide timely and actionable insights to downstream systems.
* Leveraged Cassandra DB to store, query, and manage high-volume aggregated data for real-time and batch processing. Utilized Kafka for stream processing and event-driven architecture, ensuring high availability and reliability of the data pipeline.
* Worked closely with vendors to gather requirements and ensure accurate and timely data delivery to meet organizational and project goals.
* Deployed and managed containerized applications in Kubernetes clusters, ensuring scalability and high availability.
* Worked on a data mediation platform that processes and aggregates data from network elements for downstream systems.
* Collaborated with cross-functional teams to streamline deployment workflows and align with Agile development practices.
* Deployed parsers and decoders for network data, ensuring accurate data transformation and storage.
* Monitored Kafka-based messaging queues for real-time data streaming and troubleshooting bottlenecks.
* Automated application deployments using Argo CD and Jenkins, ensuring seamless integration and delivery.
* Conducted performance testing for 4G/5G network data processing systems, analyzing and optimizing system throughput and latency.
* Optimized Oracle DB queries and configurations to support high-volume data ingestion and retrieval.
* Performed end-to-end testing of data pipelines, ensuring the seamless flow of data between upstream and downstream systems.
* Followed Agile practices, participating in sprints and daily standups to deliver high-quality solutions in a collaborative and time-sensitive environment.

**Environment:** Java 11, Kafka, Argo CD, Jenkins, Oracle DR, Cassandra DB, Jenkins, CI/CD, Git, Apache Maven, Gradle, Postgres SQL, Putty, WinSCP, Kubernetes, OpenShift, API’s, Postman, JIRA, AWS, S3, Linux, shell scripting, Visual Studio, DBeaver, Gradle 8.7, Spring Tool Suite, Corretto, IntelliJ IDEA, SCA, PVC, JSON

**Client: Mutual of Omaha**  **Jan 2023 to sep 2024**

**Role: Full stack Developer**

**Responsibilities:**

* Actively involved in the analysis, design, development, testing and maintenance process of the application using Agile methodology which includes daily Stand-up meetings, Weekly scrum etc.
* Developed and maintained enterprise-level applications using Java, Spring Boot, REST, Spring Data, Spring Cloud, Hibernate, Spring Security, Oracle and Messaging technologies, ensuring adherence to Test-Driven Development (TDD) and Behaviour-Driven Development (BDD) practices.
* Used Spring Dependency Injection, Spring MVC components, Spring Annotations, and other Spring Modules to implement the business layer and navigation part of the application.
* Used Spring Boot to create reliable and secure RESTful APIs that ensured effective data integration and exchange as well as smooth communication between front-end and back-end systems.
* Designed RESTful APIs for seamless communication between front-end and back-end systems, facilitating data exchange and manipulation.
* Leveraged HTML5 for content display, CSS3 for styling, and Bootstrap for rapid development and modification of responsive web pages, ensuring a visually appealing and user-friendly interface
* Employed Java 8 features, including Streams, advanced for-each loops, and Lambda Expressions, to optimize code and enhance performance.
* Used core Java concepts like Collections, Generics, Exception handling, multithreading, IO, Singleton Concurrency to develop business logic.
* Engineered Single Page Applications (SPA) using Angular 12, TypeScript, Angular CLI, HTML5, CSS3, JavaScript, and Bootstrap for dynamic and responsive user interfaces.
* Leveraged Angular 12 along with HTML5, CSS3, and Bootstrap to create responsive and visually appealing web applications compatible with various devices and screen sizes.
* Developed reusable and scalable UI components, fostering a component-based approach in Micro Frontend development.
* Enhanced application programs through comprehensive unit testing with JUnit and Mockito and maintained high code quality standards using SonarQube.
* Implemented centralized log management using AWS CloudWatch Logs, enabling efficient log aggregation, monitoring, and troubleshooting of application and infrastructure logs.
* Utilized lazy loading techniques to manage application resources efficiently, ensuring that only necessary code is loaded, thereby improving application responsiveness.
* Integrated Kafka with various data sources and sinks, creating robust data pipelines that efficiently handle the ingestion, processing, and distribution of large volumes of data.
* Showcased a deep comprehension of SQL and ORM technologies, adeptly managing relational databases and integrating NoSQL solutions where appropriate to address specific use cases.
* Experience in creating JavaScript for using DML operation with MongoDB.
* Responsible for maintaining and expanding our AWS infrastructure using AWS EC2, triggering events through Cloud Watch, manage documents in S3, providing IAM access to S3 buckets.
* Used Bitbucket for version control and deployed applications using Bamboo for continuous integration and continuous deployment CICD.

**Environment**: Java 8, J2EE, Angular 12 CLI, Typescript, HTML5, CSS3, Spring Boot, Microservices, Restful Web Services**,** Hibernate, AJAX, AWS, JSON, XML, Postman, SoapUI, Cucumber, Java 11,Kafka, MQ, MongoDB, Node JS, Web logic Server, JIRA, Maven, JUnit, Mockito, Log4J, IntelliJ IDEA, UML, Jenkins, GitHub, Log4j, Jenkins, Docker, MongoDB, Agile, Tomcat Server.

**Client: Charge health care, Nashville Jan 2022 to Dec 2022**

**Role: Software Engineer**

**Responsibilities:**

* Organized the implementation of core Spring concepts like AOP and IoC, streamlining codebase maintenance and boosting code reusability. This initiative resulted in a 30% reduction in development time and significantly improved overall code quality.
* Implemented DAO and DTO patterns to enhance code maintainability and scalability, fostering a modular design approach that facilitates future enhancements and updates.
* Applied core Java expertise with a strong grasp of Object-Oriented Concepts, including lambda expressions, parallel operations on collections, multi-threading, and concurrency frameworks.
* Utilized Java 8 Streams and Lambda expressions for efficient data storage and processing, leveraging modern Java features to boost application performance.
* Utilized Spring AOP for declarative transaction management, ensuring ACID (Atomicity, Consistency, Isolation, Durability) properties across database transactions.
* Devised Streams and Lambda expressions available as part of Java 8 to store and process the data.
* Streamlined adeptness in constructing scalable and efficient server-side applications utilizing Node.js, tailored to the specific needs of the team.
* Successfully integrated MongoDB with various applications and migrated data from relational databases, ensuring smooth transition and minimal downtime
* Engineered RESTful APIs to facilitate smooth communication between front-end and back-end systems, as well as Microservices, resulting in an increased application performance and scalability within the ecosystem.
* Produced extensive technical documentation encompassing API specifications and user guides, streamlining integration processes for both developers and clients.
* Excessively utilized the React framework, with a focus on building single-page applications (SPAs). Proficient in implementing routing, managing services, designing views, and employing directives to achieve a robust architectural design and user interface within the React ecosystem.
* Expanded proficiency in SPA routing with React-Router-Dom and adeptly managed application state using Redux, ensuring streamlined data flow and enhanced user experiences.
* Utilized SonarQubeto conduct comprehensive code analysis, identifying potential issues and ensuring code quality.
* Strengthened adeptness in working with OAuth 2.0 to provide secure authentication and authorization for REST services through the exchange of access tokens, ensuring robust security measures in the microservices architecture.
* Implemented serverless computing solutions using AWS Lambda, API Gateway, and DynamoDB, reducing operational overhead and optimizing cost-efficiency.
* Steered cross-functional Agile teams in the successful delivery of software releases, ensuring alignment with business objectives and customer needs. Employed Scrum methodologies, facilitating daily stand-ups, sprint planning, and retrospectives to foster collaboration and to drive continuous improvement.

**Environment:** Java, HTML, CSS3, JavaScript, ES6, JSON, Maven 3.0, Spring Boot, REST API, JPA, Kafka, RabbitMQ, Shell Scripting, JDBC, Jenkins, MongoDB, Docker, GIT, Eclipse IDE, Junit, Linux, AWS EC2, AWS S3, Spring Batch, Spring Data JPA, Eclipse, Jenkins, Confluence, Jira, SourceTree, Swagger, DB2, SQL Server.

**Employer: Visual IT Solutions, India Feb 2019 to August 2021**

**Client: Citizen Access Bank**

**Role: Software Engineer**

**Responsibilities**

* Played a key role in Agile-driven SDLC and Test-Driven Development, actively contributing to daily standups, bi-weekly sprints, and monthly releases.
* Utilized Java 8 Streams for parallel processing of data collections, optimizing application throughput and scalability for handling large datasets.
* Executed Spring MVC flow to facilitate interaction between different modules and extensively utilized Spring AOP and Dependency Injection across various project modules.
* Designed and developed the REST-based Microservices using Spring Boot Swagger for API Documentation.
* Designed and developed the Application using Angular 8 along with HTML5, CSS and TypeScript and Bootstrap, Spring, Hibernate, MySQL.
* Designed and developed scalable web applications using Spring MVC framework, ensuring robustness and high performance.
* Hands-on writing Stored Procedures, functions, triggers, DDL, and DML SQL queries. Experience in writing SQL, PL/SQL programming and SQL Loader.
* Developed and deployed Kafka-based solutions for real-time data processing and messaging, ensuring high throughput and low latency.
* Utilized AWS EC2, S3 Buckets, EBS, Lambda, and SQS for project development and deployment.
* Implemented Docker Swarm for container orchestration, enhancing scalability and fault-tolerance of distributed applications.
* Used IntelliJ as development tool, Tomcat as application server, Git and SVN was used for version controlling.

**Environment**: Java 8, Spring MVC, Spring Boot, Spring data JPA, Angular 8, Apache Camel, HTML5, CSS3, JSON, JavaScript, Hibernate, Spring Data, SQL, IntelliJ IDEA, Junit 4.4, Kafka, Mockito, Git, Docker, Spring Cloud, RESTful web services, Apache Tomcat, Atom, Gradle, Jenkins.