**Sri Sindhu**

**Senior Java Developer**

**PROFESSIONAL SUMMARY:**

* Senior Java Full Stack Developer with over 10+ years of expertise in building robust web applications. Proficient in Java with hands-on experience in frameworks like **Spring Boot, Spring MVC, and Spring Security**.
* Skilled in modern front-end technologies including **HTML5, CSS3, JavaScript**, and frameworks such as **Angular, React, and Node.js**.
* Extensive knowledge of **Microservices** architecture using **Spring Cloud** and containerization with **Docker**. Expertise in relational databases like **MySQL**, **PostgreSQL**, and **NoSQL** databases like **MongoDB**.
* Strong background in ORM frameworks like **Hibernate** and **JPA** for seamless database integration. Strong expertise in building **RESTful APIs** and utilizing tools like **Swagger** for API documentation.
* Skilled in developing comprehensive web applications with a focus on leveraging **Angular** for rich front-end experiences, **Node.js** for efficient and scalable backend services, and **React.js** for creating interactive and high-performing user interfaces.
* Hands-on experience in different modules **Spring Framework’s** Spring Web Flow (Spring Core, Spring MVC, Spring ORM, Spring JDBC, Spring Security, Spring Cloud) Inversion of Control and Dependency Injection of Spring Application Framework.
* Familiarity with **Agile methodologies** and **DevOps practices**, including CI/CD pipelines using **Jenkins, GitLab CI, or Travis CI.**
* Experience with **CI/CD** pipelines to integrate the Java code to align with DevOps practices using **Docker**.
* Developed **Microservices** for Java Applications and enabled communication among them using **REST API**.
* Monitored the applications using **NGA** tools to check logs and analyze data and updated the sensitive information to team.
* Expertise with Relational databases such **Oracle, PostgreSQL, SQL server** and **MYSQL, PL/SQL.**
* Experience working with testing tools like **Firebug, Chrome** and **IE Developer Toolbar**.
* Proficiency in developing **SOAP** web services (JAX-RPC, JAX-WS), **RESTful** web services (JAX-RS).
* Proficient in web technologies like **HTML5, CSS3, XHTML, DHTML, JavaScript, XML, Bootstrap, AJAX.**
* Experience in **MVC (Model View Controller)** architecture, using **JSF**, **Struts Framework, Hibernate** and **Spring Framework** with various JAVA/J2EE design patterns.
* Hands on experience in working on **XML Suite** of technologies (XML, XSD, DTD, XML Schema, DOM, SAX).
* Experience in developing applications using web/application servers like **WebSphere, WebLogic, JBoss, Apache Tomcat**.
* Hands on experience in using **MVC (Model View Controller)** architecture for developing applications using **Servlets**, **JSP, Struts, JDBC, Java Beans.**
* Used **OAuth** as a secure authorizing tool and implemented authorization on web services.
* Leveraged **Apache Kafka** to design and implement real-time streaming applications, ensuring efficient data flow and responsiveness for critical Java-based systems.
* Extensive experience in developing web interfaces using **JSP, JSF, JavaScript and jQuery**.
* Experienced with **Core Java** concepts such as Serialization, IO, Multithreading, Collections, Concurrency and Exception Handling.
* Managed and configured **Amazon Web Services (AWS)** cloud services like EC2, S3bucket, Security groups, RDS, EBS, ELB, Auto - Scaling, AMI, Elastic search, IAM through AWS Console and API Integration.
* Experience of working with multiple Databases like **Oracle, SQL/MySQL** and developed applications by using **JDBC, JSP Servlets, Hibernate and Web Services.**
* Experience on Relational and **NoSQL** database **like MongoDB** and **Cassandra**.
* Competence in using Java IDE tools like **Eclipse, NetBeans, IntelliJ** to develop dynamic web applications.
* Experience in the design and development of **JUnit test cases**, load balancing and failovers with cache servers and
* application servers.
* Utilized monitoring tools like **Prometheus**or **AppDynamics**to gain deep insights into application behavior, identify performance bottlenecks within Java code, and implement optimizations for improved responsiveness and resource efficiency.
* Used **JMS API** for asynchronous communication by putting the messages in the Message queue experience in developing GUIs using **Struts, Spring MVC, Spring Web Flow** frameworks.
* Good working knowledge on **SVN, CVS** and **GIT** for version control.
* Experience in working with **Test Driven Development (TDD)** and Pair Programming. Involved in developing test plans, test cases (Manual/Automated), test procedures, white-box and black-box testing.
* Committed to continuous learning and staying updated with emerging technologies to drive innovation. Passionate about leveraging technology to enhance business growth and improve user experiences.

**EDUCATIONAL DETAILS:**

Bachelors in Computer Science from CMR Institute of Technologies, Hyderabad, India, May 2014

Masters in Software Engineering from University of Houston Clear Lake, Houston, Texas, May 2016

**TECHNICAL SKILLS:**

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| Languages | JAVA, JavaScript, JSP, JQuery, Angular 17/14/11/8/+, ReactJS, Node.js, HTML, CSS, SQL |
| Cloud | AWS, AWS Serverless lambda |
| Data Interchange Formats | JSON, XML, YAML |
| Architecture | Microservices, SOA, MVC |
| Bigdata Technologies | Apache Kafka, Apache Spark |
| API Integration | Restful Services (JAX-RS), XML Services (JAX-WS), JDBC, JMS, Apache HttpClient |
| Security/SSO | SSL Keys, JWT, OAuth2, SAML |
| Application Servers: | Tomcat, Websphere 5/6, Jboss, Weblogic 7/9 |
| Frameworks | Spring Framework, Spring Boot, Hibernate, Apache Struts |
| Monitoring & Analytics | Kibana, New Relic, Prometheus, Splunk, ELK Stack |
| Software/Tools | Maven, Gradle, Jenkins (CI/CD), New Relic, Splunk, GitHub, Jira, Postman |
| Concepts/Protocols | TCP/IP, HTTP, SOAP, REST, WebSockets, OOP, Agile, OpenAPI/Swagger |
| Databases/NoSQL | Oracle, DB2, MySQL, MS SQL, DynamoDB, PostgreSQL, MongoDB |
| Version Control | Tortoise SVN, Bit Bucket, GitHub, CVS |
| Batch Jobs | Cron, Spring Batch |

**PROFESSIONAL EXPERIENCE:**

**Bank of America, Dallas, TX Nov 2022- PRESENT**

**Java Full Stack Developer**

**Responsibilities:**

* Orchestrated the implementation of Spring Boot's dependency injection and auto-configuration, optimizing development workflows in the loan application project.
* Spearhead end-to-end development of web applications, from database design and backend logic to front-end user interface implementation, ensuring seamless integration and functionality across all layers.
* Utilize advanced Java 11 programming skills to architect and develop scalable and efficient backend systems, leveraging frameworks like Spring Boot and Hibernate for rapid development and robust performance.
* Design and implement responsive and intuitive user interfaces using modern front-end technologies such as HTML5, CSS3, and JavaScript frameworks like Angular, React, Node.js.
* Develop RESTful APIs to facilitate seamless communication between front-end and back-end systems, implementing secure authentication and authorization mechanisms to protect data integrity.
* Built and maintained RESTful APIs and Microservices using Node.js, facilitating seamless integration with front-end frameworks like Angular and React.
* Utilized JavaScript powerful features to implement client-side functionality, handle asynchronous operations, and interact with server-side resources, thereby creating seamless and engaging web applications.
* Proficient in implementing Dependency Injection (DI) and Inversion of Control (IoC) principles using the Spring Framework, enabling the development of loosely coupled and easily maintainable code for enterprise-level Java applications.
* Implemented state management in Angular applications using NgRx to handle complex application states effectively.
* Coordinate and manage the interactions between Microservices using orchestration tools like Kubernetes and Docker Swarm, ensuring efficient deployment, scaling, and monitoring of Microservices-based architectures.
* Implement CI/CD pipelines using tools like Jenkins, GitLab and Terraform to automate the build, testing, and deployment processes, enabling rapid iteration and delivery of new features with minimal manual intervention.
* Integrated RESTful APIs and WebSocket services with React applications to provide real-time data and seamless user interactions
* Identify and address performance bottlenecks in both backend and frontend components, employing tools like New Relic, AppDynamics and JProfiler for monitoring, profiling, and optimizing application performance.
* Configure and manage Kafka clusters for scalability, fault tolerance, and high availability, utilizing tools like Apache Zookeeper for distributed coordination and monitoring.
* Develop JUnit test cases to validate code functionality and ensure software quality and utilized Mockito for mocking dependencies and achieving high code coverage.
* Proficient in implementing robust authentication and authorization mechanisms using Spring Security, ensuring the security of enterprise-level Java applications against unauthorized access and malicious attacks.
* Used Postman and Swagger for API testing, ensuring the reliability, functionality, and security of the software product.
* Utilized Git version control and platforms like GitHub or GitLab for managing code repositories, facilitating collaboration, and ensuring code consistency and integrity across development environments.
* Optimize SQL queries for efficient data retrieval and manipulation, employing techniques like indexing and query restructuring for improved performance.
* Generate JWTs upon user authentication and include them in subsequent API requests for authorization, enabling stateless and secure authentication across distributed systems.
* Diagnose and resolve technical issues and bugs using debugging tools like IntelliJ IDEA Debugger, Eclipse Debugger, or Chrome DevTools.
* Used Splunk for real-time log analysis and monitoring, enabling efficient troubleshooting and proactive incident response.
* Proficient in using Postman for API testing, allowing for efficient testing and validation of API endpoints, request/response handling, and automation of testing workflows.
* Extensively used Java features such as lambda expressions, parallel operations on collections, multithreading and for effective
* sorting mechanisms.
* Proficient in Test-Driven Development (TDD) methodology, which emphasizes writing automated tests before writing code to ensure robustness, maintainability, and adherence to requirements throughout the software development lifecycle.

**Transamerica, Harrison, New York Jun 2020 - Oct 2022**

**Java AWS Developer**

**Responsibilities:**

* Collaborate closely with cross-functional teams including product managers, UX/UI designers, QA engineers, and stakeholders to gather requirements, define project scope, and deliver high-quality software solutions that meet business objectives and user needs.
* Integrated with Java-based backend services, creating hybrid systems that leverage the strengths of both Node.js and Java for optimal performance and scalability
* Worked with Java 8 features such as Streams and lambda expressions to store and process data, parallel operations on collections, multithreading.
* Spearheaded the development of a robust client-side JavaScript framework for a large-scale web application, resulting in improved performance and enhanced user experience.
* Designed and developed responsive and dynamic user interfaces using frontend frameworks such as Angular, React, integrated with AWS services and Spring Boot backend for seamless data retrieval and processing.
* Utilized Angular’s dependency injection and modular architecture to create scalable and maintainable codebases.
* Implemented scalable, secure, and resilient cloud-based architectures on AWS, leveraging services such as EC2, S3, Lambda, and RDS, integrated with Spring Boot and Spring Framework for efficient application development.
* Developed serverless applications using AWS Lambda and API Gateway, seamlessly integrated with Spring Boot for rapid development and deployment of backend logic without server management overhead.
* Architected and build microservices-based solutions on AWS using containers and container orchestration services like ECS or EKS, seamlessly integrated with Spring Boot and Spring Cloud for service discovery, configuration management, and fault tolerance.
* Implemented security best practices on AWS, including IAM, encryption, and compliance controls, integrated with Spring Security for securing RESTful and SOAP services, ensuring data protection and regulatory compliance.
* Designed and implemented RESTful APIs using industry best practices, ensuring clear documentation, versioning, and robust authentication mechanisms for secure data transmission.
* Utilized tools like Swagger or Postman for API documentation and testing, facilitating seamless integration with frontend and third-party applications.
* Implemented an GraphQL library to mount a GraphQL API server on the user-configured HTTP endpoint.
* Integrated Node.js applications with various databases, including MongoDB and PostgreSQL, ensuring efficient data storage and retrieval.
* Implemented a recursive algorithm to parse large GraphQL introspection queries into a dotfile format in order to visualize the one-to-many relations between schemas in an SVG format.
* Involved in J2EE Design Patterns such as Data Transfer Object (DTO), DAO, Value Object and Template. Generated POJO classes with JPA Annotations using Reverse Engineering.
* Used Spring IOC, AOP modules for modularizing cross-cutting for concerns such as logging, caching, and transaction management.
* Collaborated cross-functionally to develop and enforce security protocols and compliance standards on AWS, implementing IAM policies, encryption mechanisms, and monitoring solutions to fortify the overall security posture of cloud-based environments.
* Designed AWS Cloud Formation templates to create custom sized VPC, subnets, NAT to ensure successful deployment of jfrog
* Artifactory and Oracle Database templates.
* Created automated CI and CD pipelines in Azure DevOps to move APIs between development, test and production.
* Utilized Kafka's distributed messaging platform to handle high volumes of data and enable seamless integration with various systems for event-driven architectures.
* Collaborated with DevOps teams to streamline development workflows, implement infrastructure as code (IaC) using tools Terraform or AWS CloudFormation, and automate infrastructure provisioning and management tasks.
* Optimized databases on AWS using services like Amazon RDS, DynamoDB, or Aurora, integrated with Spring Data for efficient storage, retrieval, and scalability of data to support microservices-based architectures.
* Implemented DevOps practices on AWS, including CI/CD pipelines using services like CodePipeline and CodeDeploy, integrated with Docker and Kubernetes for containerized application deployment and management.
* Implemented JUnit testing framework to automate unit testing procedures, ensuring the reliability and stability of codebase.
* Utilized Mockito framework to create mock objects for testing dependencies and simulate complex scenarios, facilitating comprehensive test coverage and identifying potential issues early in the development cycle.
* Set up monitoring and logging solutions on AWS using services like CloudWatch, integrated with Spring Boot Actuator for real-time visibility into application performance and troubleshooting of microservices.

**Albertsons, Pleasanton, CA JAN 2018 – MAY 2020**

**Java Full Stack Developer**

**Responsibilities:**

* Design and implement scalable and resilient architectures for web applications, leveraging microservices, cloud-native principles, and design patterns like MVC and RESTful APIs to meet performance, scalability, and reliability requirements.
* Demonstrate expertise in a wide range of technologies including Java, Spring Boot, Hibernate, Angular/React/Node.js, Docker and relational databases, staying updated with the latest trends and best practices.
* Integrated RESTful APIs developed in Java Spring Boot with Angular applications to create dynamic and data-driven user interfaces.
* Used GraphQL as a graph-based database to store the credit-based approval data in the form of key value pairs.
* Identify and address performance bottlenecks in both frontend and backend components, using New Relic and AppDynamics to optimize code, database queries, and system configurations for performance and scalability.
* Skilled in troubleshooting and debugging shell scripts, utilizing logging, error handling, and testing methodologies to identify and resolve issues promptly, minimizing system downtime and disruptions.
* Experienced in utilizing Spring Data to streamline database access and simplify data management in Java applications, improving efficiency and maintainability.
* Implement DevOps practices including CI/CD pipelines, infrastructure automation, and monitoring/alerting using tools like Jenkins, GitLab CI/CD, and Prometheus, ensuring efficient and reliable software delivery.
* Lead Agile development practices including sprint planning, daily stand-ups, sprint reviews, and retrospectives, ensuring alignment with project goals.
* Leverage Angular's component-based architecture for dynamic user interfaces and Node.js' event-driven model for efficient server-side logic, ensuring optimal performance and maintainability.
* Used latest Spring Boot, which is radically faster in building cloud based Microservices with very less configuration.
* Mapped the objects with the Database using Hibernate Query Language (HQL) as the Persistence Framework.
* Guided testing team and helped them in develop cucumber-based automation test cases (TDD) framework which we used to test our restful services.
* Involved in writing of test cases using Junit and Mockito framework and maintained a branch coverage above 85% which is a mandatory requirement.
* Skilled in integrating shell scripts with other technologies and platforms, including databases, web servers, cloud services, and monitoring tools.
* Implement Kibana for real-time data visualization and analytics, leveraging its rich set of dashboards and visualizations to monitor and analyze log data, track application performance, and troubleshoot issues effectively.
* Integrate GraphQL for efficient data querying and manipulation, providing a flexible and powerful alternative to traditional REST APIs.
* Implemented best practices for frontend performance optimization, including lazy loading of assets, minimizing HTTP requests, and optimizing images, to enhance page load times and improve overall user experience.
* Implemented token-based authentication mechanisms such as JSON Web Tokens (JWT) to secure API endpoints and authenticate user to generate and validate tokens to grant access to protected resources.
* Utilize Docker for containerization and Kubernetes for orchestration to deploy and manage applications at scale. Ensure high availability and efficient resource utilization with features like auto-scaling and rolling updates.
* Architect and implement microservices-based solutions, leveraging principles such as loose coupling and service-oriented architecture (SOA) for scalability, flexibility, and ease of maintenance.
* Implemented database normalization techniques, indexes, and query optimization strategies within SQL database to enhance data access speed and resource utilization.

**Toyota, Plano, TX APRIL 2015 – DEC 2017**

**Java Full Stack Developer**

**Responsibilities:**

* Implemented microservice oriented architecture using Spring Boot and Angular, Mongo DB and. MYSQL to integrate and communicate with the already existing applications.
* Utilized tools like Angular CLI for scaffolding and Angular Material for UI components to enhance development efficiency and user experience.
* Designed and developed Microservices business components using Spring Boot.
* Developed EJB components (session beans, entity beans) using EJB design patterns to business and data process.
* Utilized Spring Boot framework to accelerate the development of Java-based web applications, enabling rapid configuration and deployment of production-ready, standalone Spring applications with minimal setup.
* Analyzed the Node.js server structure in legacy project, then mimicked the REST service by using Java JAX-WS API and did the corresponding configurations.
* Developed RESTful APIs to facilitate seamless communication between client and server systems, ensuring adherence to REST principles for scalability, flexibility, and ease of integration.
* Implemented web applications and RESTful APIs using Spring MVC, leveraging its powerful model-view-controller architecture to create scalable and maintainable solutions for diverse client requirements.
* Developed JMS messaging components to handle asynchronous messaging from queues using Spring JMS.
* Working on writing REST API calls for the entire frontend using Rest Template and JPA.
* Implemented Multithreading, Concurrency, Exception Handling, Generics and Collections whenever necessary.
* Worked on Log4j for logging errors, messages and performance logs and implemented test cases in Junit.
* Wrote operations and corresponding handlers to communicate with Oracle database sitting on Linux/Unix server.
* Optimized Microservices using NodeJS as interfaces to Cassandra NoSQL database.
* Implemented data access layer i.e., DAO Classes using Hibernate as an ORM tool and configured xml files according to Hibernate framework.
* Experience in writing complex PL/SQL queries using joins, Stored Procedures, Functions, Triggers, cursors, and indexes in PostgreSQL.
* Implemented RabbitMQ for message queuing and asynchronous communication between microservices, ensuring reliable and scalable message delivery within distributed systems.
* Utilized monitoring tools like JProfiler to identify performance bottlenecks in Java applications.

**Client- Capital Float, Bangalore, India Jan 2014 – Dec 2014 Java Developer**

**Responsibilities:**

* Involved in various stages of Software Development Life Cycle (SDLC) and followed Agile methodology for project development.
* Designed user interface using HTML, CSS, JavaScript, jQuery, Ajax, XML, AngularJS and Bootstrap for responsive web-design.
* Implemented functionalities like validations, searching, sorting, and filtering using AngularJS and JavaScript.
* Used Spring Framework for dependency injection for Action classes using Application Context XML file.
* Implemented MVC pattern to manage data, dynamic views to display user interfaces, and controllers to handle user input and application logic, ensuring clear separation of concerns and scalability of the application.
* Worked with Spring IOC, MVC and AOP for managing dependencies, structuring the application's control flow, and implementing cross-cutting concerns such as logging and transaction management.
* Executed SOA architecture using SOAP, WSDL, UDDI and XML web services.
* Used RESTful web services to expose certain functionalities of the application.
* Developed user interface using JSP, Struts published validation framework to support client side and server-side validations.
* Implemented collections for model classes in DAO layer, modified some changes in DAO layer using Hibernate.
* Created mappings among the relations and written SQL queries using Hibernate.
* Written complex PL/SQL queries using joins, scripts, triggers, functions, cursors, indexes and stored procedures.
* Used Entity Beans to persist data into IBM DB2 database like access components, creating schemas and tables.
* Created Feature File Scenario Outline with Cucumber framework and wrote Acceptance test using BDD.
* Developed and executed comprehensive JUnit test cases to validate code functionality and ensure software reliability.
* Responsible for dealing with problems, bug fixing and troubleshooting.