**MANISHA REDDY NAKKALA**

**(Sr.** **Java Full Stack Developer)**

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**PROFESSIONAL SUMMARY**

* IT professional with 10+ years of experience as a Full Stack Developer specializing in the design, development, analysis, testing, and implementation of distributed web-based and client/server applications using Java/J2EE technologies.
* Proficient in UI design, having developed front-end applications using JSP, HTML5, CSS3, JavaScript, AJAX, jQuery, ReactJS, Angular 11, Typescript, and ECMAScript.
* Extensive experience with ReactJS, including React Flux architecture, React-Router for dynamic routing, and Redux/Redux Toolkit for state management.
* Expert in cloud-based deployment on Amazon AWS, with hands-on experience with EC2, VPC, S3, EBS, ELB, CloudFront, IAM, RDS, Elastic Cache, SNS, SQS, and CloudWatch.
* Hands-on experience with Docker for containerization, managing Docker images, push/pull operations with Spring Boot, and CI/CD pipelines using Jenkins.
* Skilled in building robust APIs using REST and SOAP technologies, leveraging JAX-WS, JAX-RS, JAXB, Jersey, Apache CXF for service-oriented architectures.
* Proficient in microservices architecture, working with Spring Boot, Netflix Eureka, and implementation using NodeJS.
* Extensive knowledge of Spring Framework, including Spring MVC, Spring Boot, Spring Microservices, Spring Batch, and Spring Eureka.
* Experience with Java versions 1.8 and 17, using features like lambda expressions, method references, Stream APIs, and multithreading to improve code readability, performance, and parallel processing.
* Expertise in design patterns such as Singleton, Business Delegate, DAO, DTO, MVC, and Template for enterprise application development.
* Hands-on with testing frameworks such as JUnit, Mockito, and PowerMockito for unit testing, and Jasmine, Protractor, and Karma for front-end testing in Angular applications.
* Experience with messaging tools such as Kafka, RabbitMQ, ActiveMQ, and Apache Camel, along with Java Messaging Services (JMS).
* Expert in working with databases, including Oracle, MySQL, SQL Server, DB2, and NoSQL databases like MongoDB and Cassandra, writing complex SQL queries, triggers, views, and stored procedures.
* Experience with authentication and authorization, using OAuth and JSON Web Tokens (JWT) for securing RESTful services.
* Familiarity with version control systems such as Git, using GitHub and Bitbucket for source code management, and build tools like Maven, Ant, and Log4J for automating processes.
* Used Azure Resource Manager (ARM) to deploy, update, or delete all the resources for solution in a single, coordinated operation.
* Utilized Python libraries such as Pandas, NumPy, and Matplotlib for data analysis and visualization, enabling real-time insights and improving decision-making.
* Used JIRA and Rally to Bug/Issue tracking and project management.
* Proficient in Linux/Unix/Mac OS X environments, efficiently using command line tools (CLI) for system management and troubleshooting.
* Extended and enhanced existing test automation frameworks (e.g., Selenium WebDriver, TestNG, JUnit) to improve scalability and maintainability and reducing test script execution time.

**EDUCATION**

* Bachelor of Technology in Computer Science Engineering JNTU-H **2013**

**TECHNICAL SKILLS**

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| **Category** | Technologies |
| **Cloud Technologies** | AWS (Amazon Web Services), Azure, GCP (Google Cloud Platform) |
| **Java/J2EE Technologies & Frameworks** | Servlets, JSP, JSTL, JDBC, JMS, JNDI, EJB, JPA, Struts, Spring, Hibernate, JSF, Spring Boot, Spring Cloud |
| **Programming Languages** | Java 8 / 11 / 17, PL/SQL, Scala, Go, Python, Node.js |
| **Application/Web Servers & CI/CD** | WebSphere, Jenkins, JBoss, WildFly, Tomcat, IBM WebSphere, Jenkins, GitLab |
| **Web Technologies & Services** | JavaScript, jQuery, XML, HTML, DHTML, CSS, Angular 12, Node.js, ReactJS, JAX-WS, JAX-RPC, JAX-RS, SOAP, REST, JAXB, Apache Axis |
| **Methodologies & Modeling Tools** | Agile, Scrum, TDD (Test-Driven Development), OOAD, SDLC, BDD, UML, Rational Rose |
| **Testing Technologies/Tools** | JUnit, JIRA, Jasmine, Karma, Jest |
| **Database Servers** | **SQL:** Oracle 8i/9i/10g/11g/12c, MS SQL Server 2000/2005, MySQL 4.1/5.1, DB2 7.2/8.1/9.1  **NoSQL:** MongoDB, Cassandra, Redis, Couchbase, DynamoDB |
| **Version Control & Build Tools** | CVS, SVN, VSS, Rational Clear Case, Stash, Git, SourceTree, GitHub, Git Desktop, ANT, Maven, Gradle |
| **Platforms** | Windows, Mac, Linux, UNIX |

**PROFESSIONAL EXPERIENCE**

**Client: Charles Schwab, Phoenix, AZ Nov 2023 to Present**

**Role: Sr. Java Full Stack Developer**

**Responsibilities:**

* Developed and maintained full-stack applications using Java, Spring Boot, and React, ensuring seamless integration and high performance.
* Utilized Java 17 features like Streams, Lambdas, and Completable Futures to enhance backend processing efficiency, improving response times by 15%.
* Built and deployed scalable RESTful APIs using Spring Boot, enabling efficient microservices architecture across services.
* Integrated GraphQL APIs in React applications for efficient data fetching, reducing API response times by 30%.
* Designed complex database queries using MongoDB and Cosmos DB, improving query performance and scalability for high-traffic applications.
* Automated testing with JUnit integrated into Jenkins CI/CD pipelines, achieving 90% test coverage and reducing manual testing efforts.
* Developed real-time features in React using WebSockets, ensuring consistent application state across multiple users.
* Led the development of reusable components using React and Redux, improving state management and reducing development time.
* Implemented role-based access control (RBAC) and fine-grained authorization using Keycloak, enhancing application security and reducing vulnerabilities by 30%.
* Deployed applications on Azure using App Services and Azure Functions, improving scalability and reducing infrastructure costs.
* Managed Jenkins CI/CD pipelines, automating builds, tests, and deployments, reducing deployment time by 40%.
* Implemented OAuth2 and JWT authentication in Spring Boot applications, ensuring secure user authentication and API security.
* Built and managed Docker containers for Java microservices and deployed applications using Kubernetes, ensuring consistency across environments.
* Implemented caching strategies using Redis with Cosmos DB, reducing load on the database and improving API response times.
* Led the migration of a monolithic application to microservices using Spring Boot on Azure, reducing downtime and improving scalability.
* Enhanced application performance by optimizing React components and leveraging lazy loading, reducing page load times by 25%.
* Integrated Camunda workflows with microservices, improving process automation and resolving workflow bottlenecks by 25%.
* Utilized SonarQube for continuous code quality analysis in Jenkins, reducing technical debt and ensuring code quality.
* Automated performance testing using JMeter and Postman, ensuring stability under high load and monitoring applications with Azure Monitor.
* Implemented MobX for state management in React applications, improving update efficiency by 30% and reducing unnecessary re-renders.

**Environment:** Java 17, Spring Boot, React, Redux, GraphQL, REST APIs, MongoDB, Cosmos DB, WebSockets, Azure App Services, Azure Functions, Jenkins, CI/CD, JUnit, SonarQube, OAuth2, JWT, Docker, Kubernetes, Redis, Kafka, RabbitMQ, HTML, CSS, JavaScript, Eclipse, Azure Monitor, App Insights, JMeter, Selenium, Log4j, GitHub.

**Client: Delta Dental of Michigan, Okemos, MI Aug 2021 to Oct 2023**

**Role: Java Full Stack Developer**

**Responsibilities:**

* Utilized the Software Development Life Cycle (SDLC) to manage projects from design through implementation, ensuring timely and quality-driven delivery.
* Developed dynamic user interfaces with React, TypeScript, ES6, and JavaScript, improving front-end performance and user experience.
* Built single-page applications (SPAs) using ReactJS, React Router, and Redux for efficient state management and navigation.
* Created responsive and cross-browser compatible web designs using HTML5 and CSS3, enhancing usability across multiple devices.
* Designed and implemented RESTful APIs using Java 17 and Spring Boot, ensuring scalable microservices architecture.
* Developed robust backend services using Spring Framework, Hibernate, and Spring Data JPA, optimizing database connectivity.
* Leveraged WebSocket protocols in React applications to support real-time communication and dynamic user interactions.
* Utilized Apache Kafka for building event-driven microservices, handling high-volume streaming data with a publish-subscribe model.
* Implemented Single Sign-On (SSO) and role-based access control (RBAC) using Keycloak to enhance authentication and authorization processes.
* Deployed containerized applications using Docker and orchestrated them with Kubernetes, ensuring scalability and efficient microservice management.
* Configured AWS services including EC2, S3, and Lambda for cloud infrastructure deployment, improving application scalability.
* Created and maintained CI/CD pipelines using Jenkins, GitLab, and AWS, streamlining automated testing, builds, and deployments.
* Employed Redis for in-memory caching, optimizing API response times and reducing database load.
* Integrated Cosmos DB and MongoDB with Java-based microservices, providing scalable and efficient database solutions.
* Developed reusable React components, enhancing code reusability and maintainability across projects.
* Designed and documented RESTful APIs using Swagger, enabling clear communication and effective service integration.
* Implemented unit and integration testing using JUnit, automated within Jenkins pipelines to ensure continuous integration.
* Utilized AWS CloudFormation and Terraform for infrastructure as code (IaC), ensuring consistent resource provisioning and management.
* Integrated SonarQube for continuous code quality analysis, ensuring adherence to best practices and reducing technical debt.
* Implemented monitoring and alerting using AWS CloudWatch and Azure Monitor, ensuring high availability and operational efficiency.

**Environment**: Java 17, Maven, Hibernate, React JS, HTML, Kafka, RabbitMQ, Apache Tomcat, Json, Java Script, Spring, Spring ribbon, Oracle, Mongo DB, JDBC, Eclipse, JUnit/Mockito, JMeter, Selenium, Jenkins, GitHub, Kubernetes, Docker, Log4j, AWS EC2.

**Client: State of Michigan, Lansing, MI June 2019 to Jul 2021**

**Role: Full Stack Developer**

**Responsibilities:**

* Involved in all phases of the Software Development Life Cycle (SDLC), including requirements gathering, design, development, and testing.
* Developed dynamic user interfaces using Angular 8, TypeScript, ES6, and JavaScript, creating seamless and responsive front-end experiences.
* Built and optimized single-page applications (SPAs) with Angular, implementing state management with NgRx and routing for efficient navigation.
* Implemented front-end designs with HTML5, CSS3, and AJAX, enhancing user interaction and page responsiveness across devices.
* Developed and maintained RESTful APIs using Spring Boot and Java 11/17, enabling microservices-based architecture.
* Utilized Spring MVC for implementing Model-View-Controller (MVC) architecture, improving code modularity and maintenance.
* Worked with Elasticsearch for advanced reporting and search functionality, integrating it with Java applications for better data retrieval.
* Implemented core features of Angular 8, such as dependency injection, data binding, directives, and services, to enhance application functionality.
* Used Spring Security and OAuth2 to secure REST APIs with token-based authentication and authorization.
* Designed and implemented backend microservices with Spring Boot, using Hibernate ORM for database interactions with Oracle.
* Developed Single Sign-On (SSO) solutions using LDAP and Keycloak, improving user authentication and authorization processes.
* Utilized Docker and Kubernetes for container orchestration and cloud deployment, ensuring scalability and high availability.
* Managed cloud resources using Terraform and deployed applications on AWS services, including EC2, Lambda, and S3.
* Integrated AWS Transcribe and Comprehend for data analysis, enabling end-to-end transcription and sentiment analysis solutions.
* Implemented Python-based backend logic for data processing in Django applications, ensuring business logic was efficiently executed and scalable.
* Worked with NoSQL databases like MongoDB and DynamoDB to design scalable, flexible database architectures.
* Used JUnit and Mockito for unit testing, and integrated them into Jenkins pipelines for continuous integration.
* Developed and optimized Kafka-based messaging systems for handling real-time data streams and event-driven architectures.
* Built CI/CD pipelines using Jenkins and GitLab for automated testing, builds, and deployments, improving team productivity.
* Leveraged WebSocket protocols in Angular applications to enable real-time communication and dynamic user interactions.

**Environment**: Agile methodology, Java, J2EE, Hibernate, Spring, XML, JSP, JAX-RS, Spring AOP, Spring security, Oracle, MongoDB, JSP, HTML, AJAX, JavaScript, jQuery, Angular 8, Docker, Kubernetes, Kafka, GIT, JIRA, PL/SQL, STS, JUnit, Log4J, Maven, Jenkins, WebLogic Application Server, AWS IAM, EC2, S3, RDS, SQS, PHP

**Client: Fortress Investment Group, New York, NY Oct 2017 to May 2019**

**Role: Java Full Stack Developer**

**Responsibilities:**

* Developed single-page applications using React, leveraging Redux for state management and reusable components for scalable and maintainable code.
* Implemented backend services with Java and Spring Boot, following MVC architecture and incorporating design patterns such as Factory, DAO, Singleton, and Façade.
* Built and integrated RESTful APIs using Spring Boot and JAX-RS (Jersey), handling JSON with Jackson libraries for data exchange between services.
* Deployed and managed applications on Azure, utilizing Azure cloud services for data extraction and processing.
* Integrated real-time data pipelines with Apache Kafka, processing and storing distributed data across clusters.
* Managed database connectivity and ORM with Hibernate for object-relational mapping between Java objects and Oracle databases.
* Configured MongoDB clusters, ensuring high availability and scalability across multiple instances and replica sets.
* Designed and optimized SQL queries in MySQL and Oracle, using indexing and query execution plan analysis for performance improvements.
* Developed and maintained stored procedures, functions, and complex queries in PL/SQL for DAO layer business logic.
* Utilized Docker for containerizing Spring Boot applications and deployed them across various environments, ensuring consistency and security.
* Designed CI/CD pipelines using Jenkins to automate application builds, testing, and deployment processes.
* Managed version control using Git, handling code integration and development branches, while tracking issues and progress via Jira.
* Implemented RabbitMQ for asynchronous communication, employing topic-based, direct, and fanout exchange patterns.
* Collaborated with frontend teams to integrate React components with Flux architecture, improving UI responsiveness and state handling.
* Migrated data between relational databases and NoSQL systems, handling both structured and unstructured data.
* Developed and styled interactive, responsive front-end web pages using HTML5, CSS3, and JavaScript, enhancing user experience.
* Integrated AWS services, such as EC2, S3, RDS, and ELB, to build and deploy scalable cloud applications.
* Wrote unit tests for Java code using JUnit, ensuring code quality and preventing regressions in a continuous integration environment.
* Refactored Java codebases to Kotlin, improving code readability and reducing bugs while integrating Kotlin with REST APIs for enhanced performance.
* Configured and deployed applications using Maven and monitored logs with Log4J to identify and resolve issues.
* **Environment**: Java 7, C/C++, J2EE, Angular 2/4, Spring 4.3, Spring boot, Spring AOP, Spring MVC, Scala, Hibernate 4, Microservices, MongoDB, CI/CD, PCF, AWS, JMS, JSF, CVS, REST, log4j, JUnit, Jenkins, Kafka, XML, Groovy, Grunt, Ajax, XSD, java Script, jQuery, AngularJS, NodeJS, Docker, Linux, Tomcat, Spring Tool Suite (STS).

**Kairos Technologies - Hyderabad, India. July 2013—August 2016**

**Java Developer**

**Responsibilities:**

* Developed and maintained RESTful APIs using Java, Spring Boot, and Hibernate for backend services.
* Built interactive user interfaces with Angular 2, HTML5, CSS3, JavaScript, and Bootstrap.
* Implemented CI/CD pipelines using Jenkins for automated builds, testing, and deployments.
* Deployed and managed cloud-based applications on AWS, utilizing EC2 and S3 services.
* Utilized MySQL and MongoDB for database management, creating complex queries and optimizing performance.
* Integrated microservices using Spring Boot with Coherence cache and service discovery mechanisms.
* Wrote unit and integration tests with JUnit, and automated frontend testing with Selenium, ensuring high test coverage.
* Employed design patterns like Singleton, Factory, Business Delegate, and DAO to build scalable solutions.
* Managed source code with Git and SVN, coordinating multiple branches and resolving merge conflicts.
* Handled session management and security with Spring Security, implementing OAuth2 for authentication.
* Used Node.js for dependency management in Angular projects and optimized build processes.
* Worked on asynchronous operations using Spring’s task execution framework to enhance performance.
* Developed Java applications utilizing advanced multithreading techniques for improved concurrency.
* Used Hibernate and JPA to handle ORM and database transactions, ensuring data consistency.
* Designed and integrated services in a Service-Oriented Architecture (SOA) environment.
* Conducted static code analysis using SonarQube to maintain high code quality and performance standards.
* Integrated Spring AOP for cross-cutting concerns like logging and transaction management.
* Ensured cross-browser compatibility and responsive design for web applications.
* Implemented load balancing strategies to improve service availability and fault tolerance.
* Developed REST APIs for external systems and ensured secure data exchange through OAuth2 and SSL.
* **Environment**: JDK1.8, JSP, Servlet, EJB, spring, JavaScript, Hibernate, Multithreading, Query, Struts, Design Patterns, HTML5, CSS3, JMS, XML, Eclipse, Apache, Oracle ECM, Java 8.0, Struts.