**Sneha  
Lead Full Stack Developer**

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**PROFESSIONAL SUMMARY:**

* 10+ years of IT experience with expertise in Java and J2EE technologies, specializing in web-based application development, implementation, and maintenance.
* Skilled in Android application development using Java and Kotlin, with a strong background in consumer and enterprise environments.
* Proficient in various SDLC methodologies, including Agile (TDD, SCRUM) and Waterfall.
* Extensive experience developing enterprise-level applications using Java, Spring Boot, Spring MVC, and Spring Data JPA. Expertise in building scalable, high-performance microservices with Spring Boot.
* Extensive experience in designing efficient schemas for SQL and NoSQL databases, optimizing queries for high availability and performance.
* Expertise in full-stack development with Java and PHP, collaborating with front-end developers, designers, and system administrators to deliver end-to-end solutions.
* Developed and managed API Gateways for routing and controlling traffic between microservices and external applications.
* Built and managed search capabilities in vector databases, integrating machine learning models and AI to support recommendation systems, NLP, and data analytics applications.
* Collaborated with data architects and business analysts to support IBM MDM implementations.
* Configured and integrated bots across multiple channels such as Microsoft Teams, Slack, Facebook Messenger, and web chat, enabling cross-platform communication.
* Extensive knowledge of object-oriented programming and experience in Java/J2EE design patterns such as Singleton, MVC, and DAO.
* Hands-on experience deploying Java-based microservices to cloud platforms like AWS, Azure, and GCP.
* Expertise in leveraging cloud-native tools like AWS Lambda, S3, DynamoDB, and Azure Kubernetes Service (AKS) for scalable, serverless architectures.
* Experienced in building and integrating RESTful services with JAX-RS, Jersey, and Spring Boot, and developing Spring Boot-based microservices using CI/CD tools deployed on AWS.
* Skilled in front-end development with HTML5, CSS3, JavaScript, and frameworks such as AngularJS, ReactJS, and EmberJS.
* Experience in Mule ESB for implementing SOA and EAI solutions and deploying applications via Cloud Hub.
* Proficient with integration tools like Jenkins, GitLab, and Azure DevOps for CI/CD pipelines.
* Expertise in databases including MongoDB, Cassandra, MySQL, Oracle, MS SQL Server, and cloud platforms like AWS and Google Cloud (GCP).
* Experience in designing scalable applications and integrating third-party solutions.
* Designed and implemented Enterprise Service Bus (ESB) integration solutions for seamless communication between distributed services and applications.
* Experience building distributed, fault-tolerant systems with message-driven architectures, using technologies like Kafka for real-time messaging and event-driven processing.
* Proficient with development tools such as Eclipse, WebSphere, WebLogic, Apache Tomcat, and Jenkins.

**TECHNICAL SKILLS:**

* **Operating Systems: Windows, Unix (Linux)**
* **Languages/Technologies:** Java, J2EE, JDBC, Hibernate, Servlets, Spring Framework, Java Beans, Web Services, JavaScript, TypeScript, NodeJS
* **Front-End Frameworks:** Angular 9.x, ReactJS, BackboneJS, NodeJS, ExtJS, ExpressJS, KnockoutJS, VueJS, BootstrapJS, Mocha/Chai
* Testing Tool: Selenium. Junit, mockito
* **Back-end Frameworks:** Express.js, Node.js, Spring Boot, RESTful APIs
* **Databases:** MySQL, PostgreSQL, MongoDB, sql
* **RDBMS & NoSQL Databases:** Oracle, MySQL, MongoDB, Cassandra, IBM DB2
* **Cloud Providers:** Amazon Web Services (AWS), Microsoft Azure, Google Cloud Platform (GCP)
* **Web Services:** SOAP, RESTful, JAX-RS, Microservices
* **CI/CD Tools:** Jenkins, GitLab, Azure DevOps
* **Version Control:** Git, SVN
* **IDE/Testing Tools:** Eclipse, IntelliJ, Visual Studio, SOAP UI
* **Miscellaneous:** Mule ESB, Apache Kafka, Graph Databases (Neo4j), Elasticsearch, MongoDB Aggregation Framework

**PROFESSIONAL EXPERIENCE:**

**Amazon, Dallas, TX  
Lead Full Stack Developer | July 2022 - till**

* Designed and implemented custom SharePoint web parts using React, improving the UI/UX and functionality of SharePoint sites.
* Applied design patterns such as Singleton, Factory, Observer, and Strategy in both Java and PHP applications.
* Designed and implemented microservices architecture with Spring Boot and Spring Cloud.
* Implemented service discovery (Eureka), centralized configuration (Spring Cloud Config), and resilience patterns (Hystrix).
* Used Mockito to create mock objects and simulate real dependencies in unit tests for Java applications.
* Implemented mocking strategies for external APIs, databases, and services in Java applications to isolate the code being tested.
* Created stubs and spies using Mockito to control the behavior of mock objects during test execution.
* Utilized MongoDB sharding and replication for distributed databases, ensuring high availability and scalability.
* Set up and configured CI/CD pipelines using Azure Pipelines and other CI/CD tools integrated with Azure DevOps.
* Configured JUnit with Spring Boot to write tests for Spring components, ensuring their correct functionality within the application context.
* Used JUnit to perform integration testing for Java services, ensuring that different components work together as expected.
* Integrated BPM solutions into Java-based microservices architectures, ensuring end-to-end business process automation.
* Designing and integrating both SQL (MySQL, PostgreSQL, Oracle) and NoSQL (MongoDB, Cassandra, Redis) databases into Java applications and optimized data access layers for high-performance applications.
* Proficient in integrating Kafka for building scalable event-driven architectures, implementing producers and consumers, and managing Kafka clusters for high-throughput data streams.
* Worked with UX/UI designers to refine GUIs, translating mockups into functional web components.
* Ensured data consistency in MongoDB and Elasticsearch while balancing performance across distributed systems.
* Designed and optimized relational database schemas using SQL Server and MySQL.
* Developed RESTful APIs using Spring Boot, JAX-RS, and Swagger.
* Integrated external services using REST APIs, SOAP, and WebSockets for real-time data exchange.
* Developed and deployed BPMN (Business Process Model and Notation) workflows using BPM tools like Camunda, Activiti, or JBoss BPM.
* Participated in code reviews using pull requests on Azure DevOps Repos, offering constructive feedback to improve code quality.
* Designed event-driven microservices using Kafka and RabbitMQ, enabling real-time data processing and communication between microservices in distributed environments.
* Integrated AI-powered ETL pipelines to automate data processing for large-scale applications.
* wokred on setting up CI/CD pipelines using Jenkins, Azure DevOps, GitLab, and GitHub Actions to automate testing, build, and deployment processes for microservices.
* Implemented human task management and automated workflow solutions using BPM tools in Java.
* Developed RESTful APIs for BPM workflows to enable external applications to interact with business processes.
* Ensured test coverage of critical features, maintaining high-quality code and ensuring that it met internal coding standards.
* Implemented mocking techniques for external dependencies, such as databases and services, to test business logic in isolation.
* Applied assertions in JUnit tests, such as assertEquals, assertTrue, and assertNotNull, to verify expected outcomes.
* Built and maintained graph databases using Neo4J, applying graph theory to model complex relationships.

**LibertyDental, Remote  
Sr. Java Full Stack Developer | Aug 2020 - July 2022**

* Implemented robust security mechanisms in microservices using Spring Security, OAuth2, JWT (JSON Web Tokens), and other industry-standard protocols for secure API communication.
* worked on JavaScript frameworks and libraries such as React, Angular, and Vue.js. Built dynamic, responsive UIs by connecting them to backend services through RESTful APIs.
* Worked on Kafka topic configuration, ensuring proper partitioning, replication, and data retention policies for optimized performance.
* Developed and maintained unit tests for Java applications using JUnit to ensure the correctness of business logic.
* Designed test cases to validate the functionality of core application modules with a focus on edge cases and exception handling.
* Utilized JUnit 5 features such as @BeforeEach, @AfterEach, and @ParameterizedTest to structure and optimize test execution.
* Designed and developed efficient database schemas for relational databases in MySQL, ensuring data normalization and optimization for performance.
* Implemented business rules and decision logic in BPM workflows using Drools or custom Java-based rule engines.
* Proficient in JavaScript ES6+ features such as async/await, promises, and modern patterns (e.g., closures, modules).
* Used Docker for containerizing Java-based applications and Kubernetes for managing containerized microservices, ensuring automated scaling and management.
* Applied argument matchers like any(), eq(), and capture() in Mockito to verify method invocations and mock interactions.
* Utilized Redux (for React) and NgRx (for Angular) to manage global state in single-page applications, ensuring efficient data flow and reactivity in complex front-end systems.
* Integrated front-end applications with RESTful services using Axios or Fetch.
* Designed, implemented, and optimized user interfaces for BPM applications using JavaFX or HTML5/JS with back-end integrations.
* Worked closely with UX/UI teams to build user-friendly and accessible web interfaces, utilizing HTML5, CSS3, SASS, and various JS frameworks (React, Angular, Vue.js).
* Implemented stored procedures and triggers in MySQL to automate data processing tasks and improve system performance.
* Integrated Angular v18 front-end with Java back-end services via RESTful APIs (Spring Boot, Spring MVC).
* Developed AI-powered retrieval pipelines for document-based queries, combining generative models for accurate text generation.
* Integrated JUnit with CI/CD pipelines (e.g., Jenkins, GitLab) to automate the execution of tests during build and deployment processes.
* Worked with Neo4j to integrate graph databases and facilitate complex relationship queries using Spring Data Neo4j.
* Developed and deployed applications on AWS, GCP, and Azure cloud platforms.
* Optimized SQL queries and integrated Elasticsearch for faster search functionalities.
* Created custom native modules in Swift for React Native, providing functionality beyond JavaScript.
* Implemented AI-driven search applications using vector databases like Azure AI and Elasticsearch.

**M&T Bank, Buffalo, NY  
Java Full Stack Developer | Sept 2018 - Aug 2020**

* Implemented Elasticsearch for full-text search, creating custom indexing strategies for efficient querying.
* Worked on the front-end using React, Redux, TypeScript, and Angular v18, building dynamic user interfaces.
* Utilized modern UI frameworks such as React and Angular, which provide a more efficient and flexible way to build UI components and manage state.
* Configured and maintained BPM engines in a distributed environment for scalability and high availability.
* Developed custom tasks and service tasks in BPM workflows using Java to integrate with external systems or databases.
* Implemented Kafka Connect to integrate external systems like databases, cloud storage, and other messaging services with Kafka.
* Utilized Kafka's Consumer Groups for distributed message processing, ensuring high availability and load balancing.
* Worked on data migration projects, transferring data between MySQL and other relational databases or cloud platforms.
* Employed JavaScript libraries such as jQuery to improve UI interactivity and user experience.
* Utilized modern APIs such as Fetch and Axios to handle data fetching and processing, replacing older technologies such as AJAX.
* Utilized CSS frameworks such as Bootstrap or Material UI to create responsive and visually appealing UI components.
* Utilized server-side technologies such as NodeJS to create RESTful server endpoints, allowing for efficient data communication between the frontend and backend.
* Employed modern design principles and patterns, such as atomic design and component-driven development, to build scalable and maintainable UI components using ReactJS.
* Ensured data integrity and consistency by implementing foreign keys, unique constraints, and check constraints in MySQL tables.
* Implemented responsive design and developed a single isomorphic responsive website that could be served to desktop, Tablets, Mobile users using ReactJS.
* Involved in developing the Reusable templates using HTML5, CSS3, JavaScript, AngularJS and handlebars.
* Implemented the application using the concrete principles laid down by several design patterns such as MVC, Session Facade, Service Locator, and Singleton.
* Integrated Kafka with Spring Boot to build event-driven, microservices-based applications with asynchronous communication.
* Developed unit and integration tests using JUnit, Mockito, and TestNG to ensure application quality and robustness.
* Used Selenium and Cypress for end-to-end testing of web applications.
* Developed RESTful APIs in Java (Spring Boot) to interact with SQL, NoSQL, and vector databases.
* Managed AWS services like S3, EC2, and Lambda for application deployment and file management.

**USAA, San Antonio, TX  
Java/J2EE Developer | Oct 2016 - Sept 2018**

* Refactored monolithic applications into Microservices architecture with Spring Boot, REST APIs, and Swagger.
* Developed CSS based page layouts that are cross-browser compatible and standards-compliant.
* Used MySQL Replication for database scalability and high availability, ensuring data consistency across primary and replica nodes.
* Designed Frontend within object-oriented JavaScript Framework like NodeJS.
* Enhanced user experience by designing new web features using MVC Framework with the help of NodeJS.
* Used Jasmine to perform unit testing of custom filters, custom directives and various parts of application.
* Developed and maintained Kafka Producers and Consumers in Java for efficient message handling and stream processing.
* Used JavaScript mostly for the client-side validations.
* Used AngularJS for Fetching Data from the Server by giving URL to get JSON data for model and to populate model from the server.
* Created and maintained backup strategies for MySQL databases, ensuring business continuity and disaster recovery.
* Involved in Unit & Integration Testing for different Modules in the application.
* Implemented Kafka Streams for real-time stream processing and transformation of data using Java.
* Used GulpJS along with NodeJS to perform watch on unit tests.
* Involved in using SVN for version controlling and reviewing code.
* Developed Java web services and APIs for integration with third-party payment services.
* Contributed to an enriched knowledge base, enhancing team efficiency through documentation and training.

**Sony, New York, NY  
Software Engineer | Dec 2014 – Nov 2015**

* Developed web-tier applications using JSP, Struts MVC, and Spring.
* Utilized JavaScript, HTML5, CSS3, and NodeJS to build a dynamic report generation application, implementing new requirements as needed.
* Integrated MySQL with Java applications using JDBC for seamless data retrieval and manipulation in web applications.
* Used text blocks for cleaner, more readable multi-line string literals, especially for SQL queries, JSON data, and HTML fragments.
* Utilized Node.js to create custom middleware functions that interact with the database and other backend systems, handling requests and responses from the frontend.
* Employed React components and Redux actions to communicate with the NodeJS server, sending and receiving data through HTTP requests and responses.
* Implemented web services with SOAP, XML, and XSLT, enabling inter-application communication.
* Worked with Oracle databases, JDBC, and Hibernate to manage data interactions and persistence layers.

**EDUCATION:**

**Bachelor of Technology in Computer Science  
| Graduation: 2014**