**Manpreet Varma Brahmarouthu   
Sr Full Stack Java Developer**

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PROFESSIONAL SUMMARY:

* Around 9 years of experience in software development involving Analysis, Design, Development, Implementation, testing of distributed applications, with strong Java 17 programming background developing Web based application using Agile methodologies practices.
* Developed Microservices with Spring Boot and Spring cloud-based services interacting through combination of REST and Apache Kafka message brokers.
* Experienced in working with methodologies like Agile, Scrum, Iterative and Waterfall approaches.
* Experience in Client Scripting language and server-side scripting languages like HTML5, CSS3, JavaScript with ECMA6 features, TypeScript, jQuery, JSON, Bootstrap, Angular 17 React, Redux, Node.js.
* Experience in working with Angular 17 modules, services, templates, controllers, events, directives, services, and dependency injection to create Single Page Applications, hands-on with Angular CLI.
* Extensive experience with J2EE architecture utilizing Java, JDBC, JavaBeans, EJB, JSP, JMS, Struts, and Comergent.
* Proficient in build and automation tools like ANT, logging frameworks such as Log4J and Log4J2, and technologies for modeling such as UML and XML.
* Developed Java/Spring Boot backend for OEM telematics systems, processing CAN bus/UDS diagnostics data.
* Involved in Spring framework extensively used Spring DI, Spring Batch, Spring AOP, Spring JDBC templates, multi-threading and in working with SOAP & Restful Web Services.
* Expertise in integrating Terraform with Ansible, Packer to create and Version the AWS Infrastructure, designing.
* Experience with CosmosDB (index,Core,Timeline,Lookup) and data migration from DB2 database to CosmosDB.
* Experienced in developing applications/streams in Microservices architecture using Spring Boot 2.7.1.
* Experienced in Analysis, Design, Development, Integration, deployment, testing, debugging, and maintenance/support of the applications using Spring Boot, Jenkins, Docker, JUnit/Mockito.
* Experience in implementing Kafka producer and consumer applications Apache Kafka using Zookeeper clusters, partitions, offsets for the real time data streaming and integration.
* Proficiency in using Azure DevOps for continuous integration deployment (CI/CD) of applications.
* Developed Hibernate ORM mappings, Annotations, and established data integrity Oracle DB tables. Expertise in server-side development with JDBC, JMS, MVC architecture, Java Beans, XML.
* Proficient in XML technologies like XSL, XSLT, SAX, DOM, WSDL, DTD, XSD, SOA, JAXB.
* Developed DAOs (Date Access Object) using Hibernate as ORM to interact with DBMS like Oracle 11g/12c, MySQL, SQL and PL/SQL, NoSQL. Extensive experience using Maven to build projects.
* Implemented AWS solutions using EC2, S3, RDS, EBS, Elastic Load Balancer, Auto-scaling groups and used AWSSDK to connect with Amazon SQS for bulk email processing.
* Demonstrated expertise in setting up Apache Cassandra clusters from scratch, involving detailed planning and execution of cluster initialization processes.
* Expertise in Maven for build, Jenkins and SonarQube continuous integration.
* Experience in using build/deploy tools such as Jenkins, Docker and OpenShift for Continuous Integration & Deployment for Microservices.
* Experience of working with RabbitMQ (AMQP Protocol) and IBM Websphere MQ using JMS.
* Expertise in implementing backup and recovery strategies to ensure data durability and availability.
* Proficiency in using CQL (Cassandra Query Language) for data retrieval, insertion, updating, and deletion.
* Extensive experience in designing and implementing Java applications using Apache Kafka, Rabbit MQ, Active MQ, IBM MQ, and other messaging systems, enabling efficient and reliable communication between distributed components and Microservices. Hands on experience with PL-SQL stored procedures, Triggers and Views.
* Experience of design and develop Microservices, transform Monolithic architectures into Microservices using open-source framework like Spring Boot, pivotal cloud foundry.
* Strong experience in designing and developing micro services and SOA based SOAP and RESTful services using Java, Spring Boot, Spring WebFlux (Reactive stack) frameworks.
* Proficient in utilizing Visual Studio, Net Beans, and other integrated development environments (IDEs) to develop, debug, and test Java applications, ensuring code quality and adherence to best practices.
* Good experience in using Version Controlling tools (CVS, Subversion, Clear Case, Jenkins) and defect tracking tools like Clear Quest, Quality Center.
* Designed and developed a MongoDB (NoSQL) based external Restful API for exposing the functionality of an existing platform to clients in an agile work environment using the web client.
* Skilled in containerization technologies such as Kubernetes and Docker, facilitating seamless deployment and management of Java applications across different environments, and enhancing scalability and flexibility.
* Experienced in working with application servers such as Web Logic, WebSphere, Tomcat, ESB, and JBoss, deploying Java applications, configuring server resources, and troubleshooting deployment-related issues.
* Proficient in version control systems, including Git and SVN, leveraging these tools to manage source code, collaborate with team members, and track changes throughout the software development lifecycle.

**TECHNICAL SKILLS:**

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| Programming Languages | Java 17/8, J2EE and PL/SQL |
| J2SE | Multithreading, Serialization, Collections, Exception Handling |
| J2EE | JDBC, JSP, Servlets, Spring, JMS, JSTL, EJB |
| Framework | Struts, Spring Core, Spring MVC, Spring Security, Spring Boot, Spring Batch, Spring ORM |
| ORM Tools | Hibernate and JPA. |
| Web/Application Servers | Apache Tomcat, IBM Web Sphere, JBoss. |
| Web Technologies / Web Services | XML, HTML5, CSS3, JSON, SOAP, WSDL, JAX-WS, REST, JAX-RS, JS, Angular 17/14/10/6/2, JS and NodeJS. |
| IDEs | Eclipse, IntelliJ 17, Postman, and Visual Studio. |
| Design Skills | Object oriented Analysis and Design (OOAD) and UML. |
| Database and Tools | SQL, Oracle12c/11g, MongoDB, No SQL |
| Monitoring Tools APM | Grafana and New Relic NRQL |
| Unit Testing | JUNIT, Mockito and Log4j2. |
| AWS | EC2, RDS, S3, ELB, EBS and LAMBDA |
| Performance Testing | JMeter 5 and PAX |
| Version Control | Git, SVN, Perforce and Clear Case |
| Build & deployed CI/CD Tools | Maven, Jenkins, Docker, and Kubernetes |
| Methodologies | Scrum Agile and Waterfall |

**PROFESSIONAL EXPERIENCE:**

**Client: State of TN, Nashville, TN Oct 2022 to Till date**

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

**Responsibilities:**

* Worked on the development and testing of the module using Agile (Scrum) Methodologies.
* Created responsive and user-friendly UI components using Angular 17 for developing web applications, used HTML5 for font, CSS3 for style, and TypeScript for static typing.
* Developed UI for Customer Service Modules and Reports using Angular 17 and Java Script.
* Stayed updated with the latest Angular 17 features, best practices, and architectural patterns to continuously enhance the development process.
* Successfully integrated backend APIs with Angular 17 frontend, ensuring seamless data flow and efficient communication between client-side applications and server-side logic.
* Contributed to the end-to-end development of web applications using Java 17 which has various performance enhancements, including optimizations in the garbage collector, just-in-time (JIT) compiler, and startup time.
* Proactively kept abreast of the latest features like including var keyword for local variable type inference and enhancements to the String class., and updates in Java 17, continuously expanding knowledge and staying up to date with the evolving Java ecosystem.
* Developed a task management system using React.js, Java Spring Boot, and PostgreSQL.
* Developing applications with Spring Boot, leveraging its convention-over-configuration approach and seamless integration with other Spring projects.
* Developed and deployed Microservices using Spring Boot, leveraging Istio Mesh for service discovery, load balancing, and traffic management.
* Integrated Istio with Spring Boot applications to implement advanced service mesh features such as traffic routing, resilience, and observability.
* Employed Istio's advanced capabilities to significantly enhance the visibility and diagnostics of Microservices, thereby elevating the effectiveness of monitoring and tracing activities.
* Proficiency in using Spring Data JPA for simplified database access, efficient data management and familiarity with Spring Actuator for monitoring and operational insights into Spring Boot applications.
* Leveraged Spring Batch and Spring Job to design and implement batch processing workflows, efficiently handling large volumes of data, and automating time-consuming tasks.
* Utilized Eclipse based Spring Tool Suite (STS) to enhance development and debugging Spring Boot applications.
* Developed robust microservices with Spring Boot and integrated advanced Spring Security mechanisms to ensure comprehensive authentication and authorization features, thereby enhancing the security and reliability.
* Integrated Spring Security with various authentication providers, including LDAP, OAuth2 providers (Google, face book, etc.), and custom authentication mechanisms.
* Designed and developed rule-based systems using Drools to automate complex business processes and decision-making in a declarative manner.
* Integrated Drools seamlessly into Spring Boot applications to enable efficient execution of dynamic business rules within the application workflow, enhancing flexibility and agility in decision-making processes.
* Enhanced user experience in IVR (Interactive Voice Response) systems through the integration of natural language processing and high-quality text-to-speech technologies.
* Optimized complex SQL queries, stored procedures, and indexing to enhance RDBMS performance
* Conducted user testing and feedback sessions to refine the IVR system and improve overall user satisfaction.
* Developed RESTful APIs for Microservices, enabling seamless communication between different services like client applications (web and mobile) and server-side systems.
* Utilized Hibernate ORM framework for object-relational mapping, simplifying database interactions to ensure efficient data persistence and retrieval.
* Proficient in writing Lambda functions using programming languages like Node.js or Python.
* Developed serverless APIs using AWS Lambda to leverage the scalability and flexibility of the AWS platform for code execution and server management.
* Worked with OpenShift platform in managing Docker containers and Kubernetes Clusters.
* Utilized AWS CloudWatch for proactive monitoring, alerting, and maintenance of production environments, ensuring optimal performance and timely resolution of potential issues affecting servers and storage systems.
* Created EC2 instances, selecting appropriate instance types, configuring security groups and network settings.
* Developed and managed ETL processes using AWS Glue to automate data extraction, transformation, and loading, improving data integration and processing efficiency.
* Configured the Docker containers and created Docker files for different environments whenever it is needed.
* Used Continuous delivery/ Continuous integration (CD/CI) tools Docker, Jenkins to deploy this application to AWS and used GIT for Version Control of code for incremental development.
* Utilized Docker to package applications and their dependencies into containers, ensuring easy deployment, scalability, and portability across different environments.
* Designed normalized and denormalized database schemas for SQL Server, PostgreSQL, and MongoDB based on application needs.
* Implemented CDC (Change Data Capture) using Debezium to stream real-time data from RDBMS to NoSQL.
* Understanding of service discovery and registration using Netflix Eureka for efficient communication and load balancing in Microservices architectures.
* Integrated a dynamic React.js frontend with backend RESTful APIs, improving UI performance by 30%.
* Implemented Apache Kafka producer and consumer applications, leveraging Zookeeper for distributed coordination, and utilized Kafka for efficient retrieval and processing of log messages.
* Experience with Apache Kafka for building real-time data pipelines and event-driven architectures.
* Developed extensive unit tests and integration tests using frameworks like JUnit and Mockito, ensuring high test coverage and software quality.
* Conducted performance testing using JMeter to identify bottlenecks, optimize application code, and enhance overall system performance and created complex JMeter test scripts to simulate real-world user behavior, utilizing plugins and functions for accurate test simulations.
* Developed ETL pipelines for data synchronization between SQL Server, PostgreSQL, MongoDB, and Elasticsearch.
* Utilized OAuth 2.0 to provide a secure and standardized method for user authentication and authorization, ensuring that only authorized users can access protected resources.
* Understanding of Kubernetes for container orchestration and management in distributed environments.
* Configured Log4j2 with meticulous attention to log levels and formatters, ensuring systematic and detailed logging that facilitates effective troubleshooting and monitoring of application behavior.
* Implemented Jenkins plugins and integrations to enhance functionality and support different stages of the Continuous Integration and Continuous Delivery pipeline.
* Used Git as version control system for managing and merging code changes, Gitlab as central repository.
* Successfully migrated from non-relational MongoDB to relational database as a primary database for handling large volumes of information.
* Utilized MongoDB geospatial features to enable location-based queries and geospatial data storage.

**Environment:** Java17/8, HTML5, CSS3, Angular 17, React, JavaScript, Spring Boot, Spring Actuator, Spring Batch, Microservices, Junit, AWS Cloud, JavaScript, AWS, Docker, JMeter, Jenkins, Gitlab, Kafka, NoSQL, Kubernetes, OAuth 2, GIT, MongoDB.

**Client: Cummins, Columbus, Indiana Feb 2021 to Sep 2022**

**Title: Full Stack Java Developer**

**Responsibilities:**

* I actively participated in the designing phase of the Software Development Life Cycle (SDLC), employing Agile Methodology, and adhering to Scrum principles.
* I took responsibility for developing the user interface components using Angular 10 and creating reusable components, templates, styles using HTML5, CSS3.
* Created custom, self-contained, reusable, and testable Angular 10 modules, Controllers, directives, and services to implement key functionalities for customer account summary.
* Implemented routing and navigation features in Angular 10, allowing the application to support multiple views without full- page reloads.
* Designed, developed, and tested RESTful web services using Java 8 and JavaScript, ensuring adherence to REST architectural principles and best practices.
* Used Java 8 Lamba expressions along with streams for creating internal iteration and performing chain operations such as Filter, Map, collect on a collection.
* Configured log forwarding from Java applications to Splunk for centralized log storage and analysis.
* Used Spring IOC, Spring transactions, Dependency Injection Spring Annotations, Spring AOP, Spring Container to provide a robust, modular, handling dependencies, managing transactions, enabling aspect-oriented programming, and facilitating inversion of control.
* Utilized Spring Batch and Spring Jobs to design and implement efficient batch processing solutions, including data ingestion, transformation, and integration tasks.
* Wrote Microservices to export/import data and task scheduling and Spring Boot, Spring, and Hibernate empower Microservices with rapid development, and efficient data persistence.
* Implemented new API’s using Restful Web services using Spring Boot to interact with mobile application and Clients legacy systems of Organization.
* Developed Hibernate entities for data schema modeling and performed ORM for seamless database interactions. Utilized criteria queries for efficient data retrieval.
* Used a highly durable messaging system called Apache Kafka for asynchronous exchange of vital information between multiple business applications.
* Designed, performed POC where needed and developed enterprise’s Apache Kafka for Distributed Messaging and Integration Ecosystem among servers.
* Performed rigorous testing and load testing using JMeter to ensure the application can handle high traffic and maintain optimal performance.
* Collaborated with frontend teams using React.js, ensuring seamless API integration.
* Created sophisticated JMeter test scripts that emulate real-world user behavior, leveraging plugins and advanced functions to enhance the precision and effectiveness of testing scenarios.
* Developed and maintained automated test scripts using Selenium WebDriver, validating web application functionality across various browsers.
* Designed and implemented Selenium-based test automation frameworks integrated with JUnit, enabling streamlined test management and ensuring comprehensive testing coverage.
* Utilized Mockito to create mock objects and developed clear and effective test cases for validating interactions between objects to ensure robust testing coverage and accurate simulation of application behavior.
* Worked on implementing backup methodologies using PowerShell scripts for Azure Services like Azure SQL Database to ensure reliable data backup and recovery, protecting critical application data.
* Created JSON-based Azure Resource Manager (ARM) templates and used them for deployments; Migrated on-premises servers, hard drives, and Web applications to Azure leveraging, Azure CLI 2.0, Azure App Service Migration Assistant Tool, and azure resource Explore.
* Designed and implemented a scalable and fault tolerant Microservices architecture using Kubernetes for efficient container orchestration, ensuring seamless deployment and management of containerized applications.
* Designed and implemented Kubernetes clusters to establish a scalable and resilient infrastructure tailored for deploying Java full-stack applications to manage cluster configuration and orchestration.
* Worked with team to set up Jenkins to implement the CI/CD pipeline by which code changes were automatically built, tested, and validated.
* Successfully established and maintained Git repositories to track changes, collaborate with team members, and ensure Version Control System.
* Managed Oracle databases, ensuring high availability, performance, and security across development, testing, and production environments.
* Implemented comprehensive backup and recovery strategies with Oracle RMAN (Recovery Manager), ensuring the integrity and availability of critical data.

**Environment:** Java 8, Agile, Angular 10, JavaScript, Microservices, HTML5, CSS3, Restful web services, Eclipse, Docker, Kubernetes, JMeter, Kafka, Mockito, NOSQL, CI/CD, Oracle, JMeter, Jenkins, Spring Boot, Spring AOP, Spring Batch, Spring Jobs.

**Client: HMS Insurance, Jun 2020 to Jan 2021**

**Title: Sr Java Full Stack Developer  
Responsibilities:**

* Developed high-quality, testable, and maintainable Java applications following the principles of Test-Driven Development (TDD) in an Agile environment.
* Developed web presentation layer using HTML5 and CSS3, according to internal standards and guidelines.
* Used Java concepts such as multi-threading, collections, garbage collection and other JEE technologies during development phase and used different design patterns.
* Leveraging React.js as the front-end framework to create and enhance user interfaces, ensuring optimal performance and seamless user experiences across devices.
* Utilized React.js to implement a component-based architecture, enhancing code maintainability and scalability by creating reusable and modular UI components.
* Conducted comprehensive testing, including unit testing and integration testing, to ensure the stability and reliability of React.js components.
* Developed a robust and efficient web-based application using Java 8, harnessing its powerful features and libraries to deliver a high-performance user experience.
* Designed, developed, and implemented Java-based Microservices architecture, leveraging frameworks like Spring Boot to create loosely coupled and scalable applications.
* Designed, developed, and maintained Java applications using Spring frameworks (such as Spring Boot, Spring MVC) and ensuring adherence to coding standards and best practices.
* Established efficient logging and Exception Handling using Spring AOP.
* All the functionality is implemented using Spring Boot and Hibernate ORM. Implemented Java EE component using Spring MVC, Spring IOC, Spring transactions and Spring Security modules.
* Designed and developed REST-based Microservices with Spring Boot, ensuring seamless communication and scalability within the application architecture.
* Implemented OAuth 2.0 flows, such as authorization code grant, implicit grant, and client credentials grant, to facilitate secure user authentication and authorization.
* Implemented Kubernetes for container orchestration, utilizing its capabilities to deploy and manage Java applications in a scalable and resilient manner.
* Involved in the configuration and management of Kafka topics, partitions, and replication to ensure efficient data distribution and fault tolerance.
* Implemented Docker Compose to define and manage multi-container applications, orchestrating the deployment of interconnected services.
* Built reusable React components and managed state using Redux.
* Worked on setting up a CI/CD environment using Jenkins, ensuring automated build and deployment processes, and testing to ensure code quality and reliability throughout the development lifecycle.
* Utilized Maven as a build automation tool for dependency management and project structuring.
* Authored complex SQL queries and optimized database performance, aiding in the design and maintenance of relational database schemas for improved efficiency and scalability.

**Environment:** Java8, JEE, HTML5, CSS3, JavaScript, React JS, CI/CD, Microservices, Docker, Spring MVC, Spring IOC, Jenkins, Kubernetes, REST, Apache Kafka, Spring Boot, Hibernate, Maven, Eclipse, Agile methodology, SQL, Maven.

**Client: Virtusa, IND Jul 2017 to Dec 2019**

**Title: Java Developer Responsibilities:**

* Developed the Scrum methodology, including the definition and construction of layers and server-side objects based on J2EE design patterns.
* Stayed updated with the latest HTML and CSS style sheets standards and best practices, continuously enhancing knowledge and skills to deliver cutting-edge web applications.
* Developed interactive and dynamic web applications using Angular6 ensuring a smooth user experience.
* Implemented the power of Angular 6 to develop and maintain robust web applications, enriching User Interfaces through advanced features such as data binding, form validation, and routing mechanisms.
* Developed and maintained Angular 4 applications for efficient project setup and management.
* Led the successful migration of a large-scale Angular4 application to Angular 6, ensuring a smooth transition while maintaining business continuity. Designed and developed batch jobs using Spring-Batch architecture.
* Developed Java components within the Microservices architecture to interact with external RESTful APIs, ensuring efficient handling of incoming and outgoing data.
* Configured AWS S3 buckets with appropriate access controls using IAM (Identity and Access Management) policies for enhanced security.
* Implemented Kubernetes secrets and Config Maps to securely manage sensitive information and configuration data, ensuring robust security and efficient configuration management.
* Used GIT/Jenkins, Nexus as Continuous Integration/Continuous Development (CI/CD) software.
* Created web services using SOAP for SOA to get data from Mainframes and content manager.
* Designed efficient data models and schemas for Cassandra, leveraging its distributed architecture to ensure optimal read and write performance.
* Set up and managed Cassandra clusters, including node provisioning, configuration, and scaling.

**Environment:** J2EE, Angular6/4, CI/CD, jQuery, IBM, JUnit, GIT, Kubernetes, Jenkins, Mongo DB, MySQL, Agile methodology, REST, MVP, SOAP, JDBC, Spring Batch.

**Client: Concentrix, IND Jun 2016 to Jun 2017**

**Title: Java Developer**

**Responsibilities:**

* Participated in the requirements analysis and technical assessments.
* Applied UML for software design and visualization in Java projects.
* Web Interface is developed using Java Server Faces Technology in JSP pages.
* Good knowledge of data connectivity (JDBC) for databases like Oracle, SQL server, MySQL, MS access.
* Worked on MVC Architecture like STRUTS, Spring framework, JSF.
* Designed a responsive UI with React and implemented Redux for global state management.
* Servlets are used as controllers to delegate requests to various JSPs.
* Utilized Cognos framework for data analysis and reporting in Java projects.
* Performed validations at both the client side and the server-side layers.
* Collaborated actively with UI/UX designers to seamlessly integrate front-end and back-end components, with a strong focus on optimizing application usability.
* Automated compilation, deployment, and testing of J2EE applications by developing Maven scripts.
* Used IntelliJ for developing code modules in the development environment.
* Participated in sprint-end show and tell sessions, presenting completed user stories and highlighting key features to the product owner.

**Environment:** UI/UX, JDBC, UML, JAVA J2EE, Maven, JSP, Servlets, STRUTS, JSF, Oracle, IntelliJ, Spring framework, MySQL, React.

**Education Details:**

* Masters in Computer Science from University of Central Missouri.
* Bachelors in Computer Science from Jawaharlal Nehru Technological University, Hyderabad (IND).