**Vamsi**

**Java Developer**

**Professional Summary**

* Skilled IT Professional with 8 years of strong experience in design, development and maintenance of distributed web-based applications and client/server applications using Java/J2EE and Web Technologies.
* Experience in design, development, implementation, deployment, testing, and maintenance using Software Development Life Cycle (SDLC) methodologies like Agile SCRUM, and waterfall.
* Extensive experience in developing microservices-based applications using Spring Boot framework, leveraging its features for rapid application development and deployment.
* Experience in Core Java with a strong understanding and working knowledge of Object-Oriented Concepts like Spring MVC architecture, Collections, Multi-Threading, Exception Handling, Inheritance, design patterns, and Polymorphism.
* Extensive knowledge of Design patterns like Singleton, Factory method, Strategy, Observer, Builder.
* Experienced in developing applications using Java/J2EE, Servlets, Structs, Spring IOC, Spring MVC, Spring AOP, Spring Security, Spring Boot, Spring Web Flow, Spring Data, Spring Microservices, JDBC.
* Experience in using Spring DI and Spring MVC for REST APIs and Spring Boot for micro-services.
* Experience in Service Oriented Architecture (SOA), Web Services design development and deployment using WSDL, REST, UDDI, JAXP, JAXB, SAX, DOM, XSLT, Apache AXIS, SOAP Web Services.
* Developed Microservices to provide Restful API utilizing Spring Boot with frameworks such as Hibernate, Spring Data JPA, and messaging engines.
* Specialized in creating RESTful APIs for online trading operations, ensuring secure and efficient data handling.
* Competent experience in JDBC, Servlets, JSP, Java Beans, JMS, Struts, Spring, jQuery, Hibernate and Web services focusing on effortless backend functioning.
* Proficient in using Object Oriented Programming Analysis and Design (OOAD) principles, UML and Rational Rose, Object Oriented Design Patterns in building high performance applications.
* Proficient in working with various components of the Hadoop ecosystem, including HDFS, MapReduce, YARN, Hive, HBase, Spark, and Pig.
* Experience in developing Java applications for processing large-scale datasets using Hadoop MapReduce, facilitating efficient parallel processing and analysis of structured and unstructured data.
* Successfully implemented Spark Streaming solutions, contributing to real-time data processing capabilities.
* Implemented security monitoring and compliance dashboards in Splunk to detect and analyze security threats, ensuring compliance with regulatory requirements and internal policies.
* Designed and optimized Hive queries, resulting in improved data retrieval performance.
* Developed multiple microservices using Dropwizard, handling millions of requests daily
* Developed custom dashboards and reports in Splunk to visualize key performance metrics, security events, and operational data, providing actionable insights to stakeholders.
* Developed Single Page Applications (SPA) using Node.js, Angular.js, React.js MVC framework for unique and customized front end application development with seamless integration and workflow.
* In-depth understanding of Redis architecture, data structures, and features, enabling efficient utilization of Redis for various use cases such as caching, session management, and message queuing.
* Extensive experience in implementing Redis solutions, including deployment, configuration, and optimization of Redis instances to meet performance, scalability, and reliability requirements.
* Advanced expertise in writing complex SQL, PL/SQL queries and subqueries like stored procedures, joins, functions, triggers, views, and exception handling for retrieving, manipulating, checking, and migrating complex data sets.
* Extensive experience in working with different databases such as Oracle, IBM DB2, SQL Server, MySQL, NoSQL Databases like Mongo DB.
* Proficient in development of EDI applications, including Project Strategy, Functionality, Information Architecture, Navigation Systems.
* Hands-on experience with various Big Data frameworks and tools, such as Apache , Apache Spark, Apache Kafka, Apache Hive.
* Good experience with Apache Kafka, Apache Spark, JMS, RabbitMQ for real-time data streaming and message handling.
* Extensive experience in designing, developing, and deploying real-time and batch data processing solutions using Apache Flink and Apache Beam.
* Managed Amazon Aurora DB, ensuring high availability, performance, and scalability for critical applications.
* Used Docker container for eliminating a source of friction between development and operations.
* Deployed the Application into Docker container and made easily accessible at runtime using Pivotal Cloud Foundry and other cloud services like AWS, Netflix Eureka, Spring Hystrix as fallback method, Spring Ribbon for load balancing and a broker service to maintain status using Spring Kafka and Zookeeper.
* Developed comprehensive test suites using Rest Assured to validate API endpoints, request/response payloads, status codes, and headers.
* Extensive experience in handling dynamic web elements and complex web page interactions using Selenium WebDriver, including handling AJAX calls, waiting for elements to load, and handling synchronization issues.
* Hands-on experience in J2EE Testing in developing test cases with JUnit, Karma, MOCKITO for Unit testing.
* Demonstrated expertise in Selenium WebDriver, leveraging it to automate web browsers, interact with web elements, and perform various actions for test automation purposes.
* Have good hands-on experience in Automation Tools like Selenium, WebDriver, TestNG, Eclipse, Git/GitHub, Jenkins, SOAP UI, and REST with POSTMAN.

**TECHNICAL SKILLS:**

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| **Java Technologies** | Spring Boot, Spring MVC, Hibernate, Servlets, JDBC, JSP, JSTL, Swing. |
| **JavaScript**  **Technologies** | React, Redux, AngularJS,Angular**,** jQuery |
| **Python Framework** | Django, Flask, Web2py and Bottle, Pyramid, Swagger, RabbitMQ, NumPy |
| **Cloud Technologies** | AWS, Azure, Google App Engine |
| **Database** | Oracle, MySQL, MongoDB, Redis, Cassandra |
| **Web Services** | RESTful, SOAP, WSDL, UDDI |
| **Testing frameworks** | JUnit, Jasmine, Karma, Mockito |
| **Operating Systems** | Windows, UNIX, LINUX, Mac OS. |
| **Web Servers** | WebSphere, WebLogic, JBoss, Tomcat, Nginx |
| **Repositories** | Git, Bitbucket, SVN, CVS |

**Work Experience**

**Vanguard, Valley Forge, PA Nov 2023 to Present**

**Java Developer**

* Involvement in various phases of SDLC - Requirements gathering, Design, Analysis, Development, and Testing.
* Worked on J2EE design patterns like DAO, Front Controller, Session Facade, Factory Pattern, and Singleton.
* Deployed Spring Boot-based Microservices on Docker containers using Amazon ECS and Docker Hub to register the Docker images.
* Designed and implemented RESTful APIs for secure online trading of stocks, ETFs, and mutual funds.
* Designed, developed, and deployed microservices-based Java applications on OpenShift, leveraging container orchestration to manage and scale individual services.
* Implemented Redis cache in Spring Boot applications to improve performance and scalability by caching frequently accessed data.
* Configured Redis cache with Spring Data Redis or Jedis library, defining cache managers, cache annotations, and expiration policies to optimize cache behavior.
* Working with the Spring Core layer, Spring ORM, and Spring AOP in developing the application components.
* Implemented caching mechanisms using Spring Boot's caching annotations and integrated with Redis for performance optimization.
* Working with the Spring Core layer, Spring ORM, and Spring AOP in developing the application components.
* Worked in the development of microservices-based architecture for investment banking platform, resulting in significant performance improvements and scalability.
* Utilized IBM MQ and other messaging technologies to connect Java applications with mainframe applications, ensuring reliable communication and data transfer.
* Worked with Onedata for data integration and management, ensuring accurate and consistent data flow across multiple systems and applications.
* Implemented data synchronization processes using Onedata to maintain data integrity and consistency across distributed environments.
* Maintained COBOL programs on IBM mainframes, ensuring reliable and efficient execution of business processes.
* Utilized REST APIs to support basic configurations of flowchart process boxes such as Select, Segment, Merge, Extract, CreateSeg, and Mailist.
* Designed and implemented efficient Hadoop MapReduce jobs using Java to process and analyze large-scale datasets, ensuring optimized performance and resource utilization.
* Integrated Java applications with HBase, a distributed NoSQL database on Hadoop, to store and retrieve large volumes of structured and semi-structured data with low-latency access.
* Developed RESTful APIs, web services, and backend microservices in Spring Boot, adhering to RESTful principles and best practices for designing scalable and maintainable APIs also involved in testing endpoints using POSTMAN, Swagger, and SOAPUI.
* Integrated real-time market data using Kafka for efficient and timely trading operations.
* Developed backend services for managing user accounts, settlement funds, and transaction histories.
* Utilized Spring Boot to build scalable and maintainable microservices for various trading functionalities.
* Developed and maintained web applications using Next.js, React, and other front-end technologies.
* Built and deployed scalable web applications using Dropwizard and Spring Boot
* Implemented client-side routing using React Router in conjunction with Next.js for handling in-app navigation.
* Worked on React.js components, Forms, Events, Keys, Router, Animations, and Flux concept.
* Created the Application using React.js and Node.js libraries NPM, gulp directories to generate the desired view and flux to root the URL properly.
* Developed and optimized Spark applications using Spark Core, Spark SQL, Data Frame, and Spark Streaming to perform real-time data processing, batch processing, and machine learning tasks on massive datasets.
* Implemented data ingestion pipelines using Apache Flume, Apache Kafka, and Apache Sqoop to ingest data from various sources into Hadoop ecosystem components, ensuring data reliability, consistency, and integrity.
* Developed the various features of the application using front end technologies like Node.js and React.js.
* Implemented React.js for reusable components for multi-field form elements, background file uploads.
* Designed and developed microservices for manufacturing plants using NodeJS and React.js.
* Experience with DevOps technologies like Jenkins, Maven, etc. Knew Kibana, and Elastic Search to identify the Kafka message failure scenarios.
* Configured multi-project builds in Gradle to manage complex project structures, defining dependencies, configurations, and tasks across multiple subprojects for efficient build management.
* Experience in configuring and managing Kafka clusters, including installation, deployment, scaling, and monitoring using tools like Apache Zookeeper, Kafka Manager.
* Implemented automated backup and recovery strategies using Aurora’s built-in features, ensuring data protection and rapid recovery in case of failures.
* Developed Junit test cases for regression testing and integrated with Maven build.
* Experience in developing and deploying a Microservice application including AWS Stack including S3, EC2, DynamoDB, Kinesis, SNS, and SQS.
* Wrote the code to write and read files from AWS S3 buckets.
* Good Knowledge of working with OAuth2.0 to provide authentication and authorization to Rest services by exchanging Access tokens.
* Experience with EC2, CloudWatch. Performed database defragmentation improving database performance and loading speed.
* Utilized AWS CloudWatch and other monitoring tools to monitor Aurora DB performance, set up alerts, and troubleshoot issues proactively.
* Created custom Docker container images for Java applications, optimizing images for size, security, and performance, and stored them in OpenShift's integrated image registry.
* Utilized OpenShift's built-in service discovery and load balancing features to efficiently route traffic to Java application pods and maintain high availability.
* Created and managed message queues and topics within Apache ActiveMQ to support point-to-point and publish-subscribe messaging patterns, ensuring efficient data flow.
* Experience with CI/CD pipelines to integrate Java code to align with DevOps practices using Docker.
* Developed and optimized SQL queries, stored procedures, triggers, and functions in Oracle PL/SQL to support application development and data manipulation tasks.
* Identified and resolved performance bottlenecks in Oracle databases by optimizing SQL queries, indexing strategies, and database configuration parameters.
* Worked with NoSQL database to store JSON-like dynamic connections data. Using project management and version with Maven and Git.
* Experience with Docker Compose for defining and running multi-container Docker applications, including Python-based microservices and dependencies.
* Used Kubernetes YAML manifests and configuration options for defining and customizing Python application deployments, including resource limits, environment variables, and volume mounts.
* Designed, Installed and Implemented CI/CD automation system. Used Ant, Maven as a build tool on java projects for the development of build artifacts on the source code.
* Implemented Kubernetes Deployment manifests and Services for application scaling, ensuring high availability and fault tolerance.
* Utilized IntelliJ's integrated debugger to identify and resolve issues, effectively diagnosing and fixing bugs in the codebase.

**Environment: Java/J2EE, Java 1.8, Spring Boot, HTML5, CSS3, Python, React.js, Angular, Next.js, Ajax, Gradle, Restful APIs, Bootstrap, AWS, SQL, jQuery, JavaScript, My SQL, Redis, Jenkins, Tomcat, Microservices, Amazon SQS and SNS, Git, Maven, Apache Kafka, Docker, Hadoop, DOM, OpenShift, IntelliJ, SCRUM, XHTML, Restful Web services, EC2, CloudWatch, Oauth2.0**

**Discover Financial Services, Chicago, IL Mar 2022 to Oct 2023**

**Java Developer**

**Responsibilities:**

* Interacted with product owners, stakeholder to gather requirements, and prepare documentation on the same.
* Part of application development team for refactoring existing code and deliver upcoming new Change Requests for the ongoing live application, which is developed using Spring MVC, Spring Batch, Hibernate and Spring Web Services.
* Integrated Credit Card payment and notification service using microservices, SNS, Lambda Functions, SQS.
* Responsible for design and developing Persistence classes using Hibernate, and spring boot data Template frameworks to save data in database tables. Implemented multi-threading using java.util.concuurency API to improve the processing of data feeds.
* Utilized Spring Boot starters, auto-configuration, and dependency injection to streamline application setup and reduce boilerplate code, accelerating development cycles and improving code quality.
* Designed, implemented, and deployed microservices architectures using Spring Boot and Spring Cloud, adhering to principles of modularity, loose coupling, and service autonomy.
* Proficient in using data loading tools such as Sqoop, Flume, and Kafka for efficient data ingestion.
* Developed Rest API to process the data from DB to another Rest Service to display output.
* Developed Restful Webservices to perform CRUD operations for the Appointments in Outlook using EWS library.
* Developed MySQL database to save and retrieve data about user subscription and payment information.
* Used JDBC in order to establish and maintain connection with the MySQL database from the Java Spring Data Layer.
* Integrated Hadoop-based data processing solutions with existing enterprise systems, such as data warehouses and ETL tools, to enable seamless data flow and interoperability across the organization.
* Implemented data cleaning and transformation logic within Hadoop MapReduce jobs to ensure data quality and consistency before analysis.
* Developed custom input and output formats in Hadoop to handle complex data structures and non-standard data sources, enabling the processing of diverse data types.
* Integrated RESTful APIs and managed data flow between React components using asynchronous techniques such as promises or async/await.
* Implemented reusable React components, enhancing code modularity and promoting efficient development practices.
* Implemented encryption algorithms in Python to secure sensitive user data and transactions.
* Designed and implemented database schemas and data models using Oracle SQL Developer Data Modeler or similar tools, ensuring efficient storage and retrieval of data.
* Implemented user authentication and authorization functionalities in React applications using JWT and OAuth.
* Developed REST API in Node JS using express service.
* Using RESTful webservices, storing in Kafka Message Queues and performing analytics for streaming data in real time using Apache Spark.
* Developed a data pipeline using Kafka, spark, and hive to ingest and analyze the order at a branch for a client.
* Created topics with Kafka and Zookeeper.
* Installed Kafka on 4 node cluster and written Kafka producer to collect events from REST API and push them to broker.
* Worked on Kafka Streams and developed Kafka producer and consumer API’s using Spring boot for event-driven application architecture.
* Responsible for implementing producers, consumers, and configuring brokers.
* Installed application on AWS EC2 instances and configured the storage on S3 buckets.
* Perform AWS S3 buckets creation, policies and the IAM role based polices.
* Created monitors, alarms, and notifications for AWS EC2 hosts using AWS Cloud Watch.
* Migrated applications to the AWS cloud.
* Involved in writing java API for Amazon Lambda to manage some of the AWS services.
* Designed, configured, and deployed Amazon Web Services for large number of applications utilizing the AWS API gateway and ELK (Elastic search, Kibana, Logstash) stack focusing on high availability and fault tolerance that is produced by Apache Spark cluster.
* Used AWS Data Migration Service (DMS) for continuous data replication and migration to Aurora, ensuring seamless data transfer and minimal impact on application performance.
* Implemented event-driven architectures and complex data transformations using Apache Flink windowing, state management, and time-based operations.
* Implemented test cases and performed unit testing using Karma-test-runner and Jasmine.
* Maintained websites and applications including content updates, debugging, feature enhancements and testing.
* Daily work includes creating scalable API's, creating jobs using Spring Batch, designing, and implementing new features both front end and back end.
* Created required data structure, triggers, sequences in Postgres Database.
* Configured build tasks and workflows in Gradle, including compiling, testing, and generating artifacts for deployment.
* Written test cases and done Unit testing execution with JASMINE and used Log4J API for logging and debugging.
* Worked with executed unit test cases by using JUNIT for accuracy of code and logging with log4j.
* Implemented authentication and authorization mechanisms using Rest Assured, such as adding headers, handling access tokens, and simulating different user roles.
* Used Postman to test REST API end points.
* Tech Stack Involves Java, Angular, Postgres, Cassandra, AWS, Docker, JBOSS, Postman, Jira, Bitbucket.
* Participated in AGILE SCRUM meetings.
* Worked with defect tracking system JIRA.

**Skills- Java, Spring MVC, Spring Boot, Redis, JSON, DOM, XML, W3C, Maven, Python, PLSQL, Hadoop, Git, microservices, JIRA, AWS, Cassandra, Hibernate, Gradle.**

**Concentrix, India Jul 2018- Aug 2021**

**Java Developer**

**Responsibilities:**

* Involved in Full Life Cycle of Software Development (SDLC) from Analysis through Design, Development, Integration, and testing phases.
* Developed efficient design and user-interactive (UI) web pages using web technologies like HTML5, CSS, ES6 JavaScript, Node.js, React.js and React Native/Redux Saga.
* Designed and Developed Spring REST API with Spring Boot.
* Migrated SOAP web service resources to Spring REST API with Spring Boot.
* Implemented Redis data structures such as lists, sets, hashes, and sorted sets to model complex data relationships and optimize data storage and retrieval.
* Leveraged Redis Pub/Sub feature for implementing real-time messaging and event-driven architectures in Spring Boot applications, facilitating asynchronous communication between microservices.
* Developed GraphQL and services to interact with data storage layer.
* Successfully implemented Kafka for real-time data streaming and integration, enabling the ingestion and processing of high-velocity data streams.
* Designed and maintained Kafka topics, ensuring reliability and fault tolerance in data streaming applications.
* Developed MySQL queries to implement the select, insert, updated, and delete operations.
* Involved in writing triggers using MySQL Workbench which is used to prevent invalid transactions.
* Developed data ingestion systems using Python and Java to collect, ingest, and process real-time data streams from diverse sources.
* Implemented React.js for reusable components for multi-field form elements, background file uploads.
* Worked on React.js components, Forms, Events, Keys, Router, Animations, and Flux concept.
* Created the Application using React.js and Node.js libraries NPM, gulp directories to generate the desired view and flux to root the URL properly.
* Redux Saga’s has been implemented with actions and reducers for implementing API Sync calls.
* Developed the various feature of the application using front end technologies like Node.js and React.js.
* Designed and developed microservices for manufacturing plants using NodeJS and React.js.
* Explored the concepts around RabbitMQ such as Quorum queues, Shovel plugin for federation and HADR for different tiered applications.
* Implemented database security measures such as user access controls, role-based permissions, and encryption to protect sensitive data stored in Oracle databases.
* Worked on MongoDB concepts such as locking, transactions, indexes, Sharing, replication, schema design.
* Implemented Multithreading for improving performance of batch processes.
* Deployed Docker contained Spring REST services into AWS EC2 container service using AWS admin console and used lambda to run applications in AWS console.
* Deployed and developed the project using AWS EC2, S3 Buckets, Data pipeline, Elastic Bean Stalk, Lambda, Amazon messaging services (SQS) and Amazon Kinesis Services.
* Developed AWS cloud formation templates and setting up Auto scaling for EC2 instances and involved in the automated provisioning of AWS cloud environment using Jenkins and
* Migrating the existing project to Microsoft Azure with Azure services.
* Azure Resource Manager (ARM) provides security, auditing, and tagging features to help you manage your resources after deployment.
* Used Azure Resource Manager (ARM) to deploy, update, or delete all the resources for your solution in a single, coordinated operation.
* Define set of resources and specifying deployment parameters to Azure Resource Manager (ARM) templates to creating resource group of virtual machines.
* Using Azure Functions to integrate applications and run backend processes according to schedules without provisioning/managing servers.
* Successfully set up and maintained test automation infrastructure, including Selenium Grid for distributed testing and integration with Continuous Integration (CI) tools like Jenkins, ensuring scalability, parallel execution, and efficient software delivery.
* Integrated Gradle with Continuous Integration (CI) tools like Jenkins or TeamCity to automate build and deployment processes.
* Migrated entire component and maintained version control as well as code from TFS to Bitbucket.

**Skills: Java, Spring, Spring Boot, Rest API, React.js, Node.js, Redis, Python, Oracle, Gradle, jQuery, AJAX, bitbucket, GIT, Kafka, AWS, Azure.**

**Rational Technologies, India June 2016 – Jul 2018**

**Java Developer**

**Responsibilities:**

* Implemented MVC pattern using the Struts framework.
* Developed business logic and validations using Java 8.0 and Spring MVC.
* Developed Presentation layer using Java Server Pages (JSPs).
* Used jQuery for front end validation.
* Used Custom Tag libraries for XML parsing and XSL transformations.
* Developed logic and code for registration and validation.
* Requirements Analysis, studying/Understanding the current system and coming up with the use case documents.
* In the design phase came up with high level and low-level design documents.
* Using Spring Boot, which is faster in building microservices, and developed Spring based application with very less configuration.
* Integrated Java ORM frameworks like Hibernate and JPA with Oracle databases to map Java objects to database entities and simplify database interactions.
* Implemented transaction management in Java applications using Oracle database transactions to ensure data integrity and consistency during database operations.
* Experienced in deploying Java EE applications to IBM WAS, managing application lifecycle, and troubleshooting deployment issues.
* Integrated IBM WAS with other middleware technologies and enterprise systems, such as IBM MQ, Apache Kafka, and IBM DB2, to enable seamless communication and data exchange.
* Worked efficiently as part of a collaborative team in deadline driven environment under agile methodology.
* Participated in weekly meetings for status reports and involved in web operations.
* Implemented caching for API responses using REDIS and optimized code.
* Extensively used Stored Procedures, Functions and Triggers.
* Created Web Services to transfer data to a legacy application.
* Data Source Configuration in JBOSS.
* Designed the JSP pages and used Struts Libraries for the presentation layer.
* Used JavaScript and CSS in web pages.
* Developed Struts Action Forms and Action Servlets to validate and process user requests.
* Developed and debugged the application using WSAD.
* Web sphere application server used for deployment.
* Developed SQL Statements and performed SQL tuning and optimization.
* Extensively used Hibernate for Data Access and Data Persistence.
* Used JUnit for testing Business Objects developed.
* Verified the functionality of the unit level codes with respect to system requirements.
* Involved in configuring and production support of the application by responding to tangible needs.

**Skills: Java 8, Spring MVC Framework, Rest API, GitHub, Oracle, IBM WAS, JBOSS, UNIX (For Production environment), Hibernate, Apache POI, jQuery, proprietary frameworks.**

**Education:**

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| Master of Science in Information Technology, 2022 | Kennesaw State University |
| Bachelor’s Aeronautical Engineering | Vardhaman College of Engineering, JNTU-Hyderabad |