BHARATH CHAVALA
SOFTWARE ENGINEER

bharathchavala417@gmail.com | +1 417-351-7352 | GitHub | Portfolio | Linkedin | Missouri

SUMMARY

Over 5+ years of experience as a Software Engineer, contributing to all phases of the Software Development Life Cycle (SDLC), encompassing conceptualization, architecture, development, and deployment of web-based enterprise business applications using JAVA/J2EE technologies.

- Expertise in DAO, Spring (Core, JDBC, Cloud, Rest, Boot), Hibernate (2.0/3.0), JPA, and Struts (1.1/1.2) for efficient, scalable solutions.
- Proficient with JavaScript, AngularJS, React JS, Backbone.js, Express.js, jQuery, AJAX, JSON, Bootstrap, and Node.js for dynamic and responsive applications.
- Integrated Apache Kafka 2.5.0 for real-time data streaming and server-side events.
- Skilled in Java 8, XML, JSP 1.2, Servlets 2.0, EJB, Collections, Multithreading, OOP, RMI, Serialization, Synchronization, and Performance Tuning.
- Experienced with Selenium, TestNG, JUnit, Mockito, Easy Mock, Spring JUnit Runner, JMeter, SLF4J, and Log4j.
- Designed and optimized SQL queries for RDBMS like MS SQL Server; proficient with DynamoDB for NoSQL solutions.
- Architected using AWS services (EC2, S3, EBS, RDS, VPC, IAM); implemented Step Functions, VPC Peering, SQS, SNS, and DynamoDB; expertise in Route 53, ACM, CloudWatch, CloudTrail, NLB/ALB, and Bastion Services.
- Skilled with Docker and Kubernetes for consistent environments and scalable deployments.
- Automated deployments using Jenkins; proficient with build tools (ANT, Maven, Gradle) and version control systems (Git, Bitbucket, SVN).
- Configured secure and scalable solutions with AWS NLB/ALB and vertical/horizontal scaling.
- Implemented robust CI/CD pipelines for Spring Boot apps on AWS and Azure.

TECHNICAL SKILLS

Methodologies	SDLC, Agile, Waterfall, Kanban
Languages	Java (JDK 1.1, J2SE 1.3/1.4/5.0, Java SE 6, Java SE 7, 8, 11), J2EE, Python3.6.0
Frameworks/Libraries	Spring Boot, Spring MVC, Hibernate, Maven, Gradle, Swagger, JPA, Hibernate, Apache Camel, Spring MVC, Spring IOC, Spring AOP, Spring Cloud Spring Boot, Spring Security, Spring Data JPA
Scripting Languages	JavaScript, Type Script, Bash, Perl, Shell Script.
Databases	MySQL, PostgreSQL, Oracle, MongoDB, Cassandra, DB2, H2, Dbeaver, DynamoDB, Oracle 9i/10g/11g/12c/19c.
Java/J2EE Technologies	Java, EJB, JSP, Servlets, Struts, Swing, Java Beans, Java Server Faces (JSF), Spring, Spring Batch, JDBC, NodeJS, SOA, JAX-WS and JAX-RPC
Web Development	jQuery 1.8,1.9, Dojo, Ext JS, Angular 11/12, JavaScript (JS), CSS3, HTML5, Angular 16, ReactJs, NodeJs, Express JS, AJAX, Redux, Bootstrap, JSON.
Application Framework	Struts 1.x/2.x, Spring 4/5, Spring MVC, Spring Security, Spring Boot, Spring ORM, Spring Cloud, Dropwizard.
DevOps Tools	Jenkins, GitHub, GitLab, Docker, Kubernetes, Slack, Amazon Web Services (AWS), Azure, Google Cloud Platform (GCP), Splunk Cloud, Terraform, PCF.
Version Control and Tools	Git, Bitbucket, Jenkins, Tomcat, IntelliJ, Visual Basic, Postman, Spring Tool Suite (STS)
Architecture and Queue	RESTful Microservices, REST API, Containerization, Rabbit MQ, Kafka, JSON
UML Tools/ Build Tools	ANT, Maven, CI/CD, JUnit, Jira, Jest, Jasmine, Cucumber, Cypress, Selenium.
Operating Systems	Windows, Linux, MacOS, Linux, UNIX Scripting

EDUCATION

Master of Science (MS) in Computer Science   **Aug 2022 – May 2024**
Missouri State University, Missouri, MO

Bachelor of Technology(B-Tech) in Mechanical Engineering   **Aug 2016 – June 2020**
Gandhi Institute of Technology and Management, Andhra Pradesh, India

WORK EXPERIENCE

American Express Technology , USA   Feb 2023 – present
Software Engineer

- Applied diverse methodologies such as SDLC and Agile to adapt project strategies based on evolving requirements, enhancing efficiency and adaptability in project delivery.
- Expertise in Front-End Development using Angular6/7, Node JS, React, Backbone JS, RabbitMQ, JavaScript, Express-JS, jQuery, Jasmine, Ext-JS, Grunt, AJAX, XML, JSON, XSLT, CSS3, HTML5, angular 2.0, Bootstrap.
- Ensured HIPAA compliance and implemented security protocols with Spring Security 5.x and OAuth 2.0. Used Spring Cloud Netflix Zuul for API gateway management and Spring Data JPA for database interactions.
- Used multithreading in Spring Boot to enhance performance by leveraging asynchronous processing in WebFlux or @Async with Rest Template for efficient concurrent request handling.
- Utilized OpenFeign to simplify REST client creation with declarative annotations, enhancing HTTP API consumption. Integrated OpenFeign with Spring Cloud to streamline microservice communication.
- Utilized the Kafka Streams API for real-time data processing and transformation, integrating it with existing data pipelines. Implemented Kafka Connect to integrate Kafka with various data sources and sinks, facilitating seamless data ingestion and export.
- Designed and optimized complex SQL queries with indexes and query optimization. Implemented database schema design and normalization for data integrity. Developed and maintained stored procedures and functions using PL/pgSQL.
- Orchestrated containerized applications with Kubernetes (EKS) and managed Docker containers; leveraged AWS Lambda for event-driven serverless applications.
- Developed TDD and BDD tests using Cucumber by writing behaviors and step definitions and created the necessary Selenium support code in Java for Cucumber.
- Designed event sourcing and CQRS patterns, utilized Apache Kafka Streams and Apache Camel routes. Automated CI/CD pipelines with GitLab CI/CD and used Agile methodologies (JIRA) for project management. Provided ongoing support with tools like Swagger and Postman for API testing and monitoring.

Environment: Java 11, J2EE, AngularJS, Angular7.0, React JS, HTML 5, CSS 3, JavaScript, Hibernate, JPA, Spring Boot 2.x, Spring Framework 5.x (including Spring MVC, Spring Security, Spring Data JPA, Spring Integration, Spring Cloud), Spring Web Flux, Spring Cloud Netflix, Apache Kafka 3.x, Apache Camel, Dropwizard, AWS, Hibernate, JUnit 5 and Mockito, PostgreSQL, MongoDB, Docker, Kubernetes, Jenkins, Git, Splunk, OAuth 2.0, WebSocket's, YAML, Swagger and Postman, Apache Kafka Streams.

Dell Technology, Hyderabad, India   June 2020–Sep 2022
Software Engineer

- Designed and implemented robust and scalable full-stack applications by integrating ReactJS for the front end, Java for the backend server, and PostgreSQL as the relational database.
- Proficient in Front-end development: HTML5/CSS3, DOJO, JavaScript, jQuery, Ajax, JSF, ReactJs, Bootstrap, AngularJS, NodeJS, ReactJs.
- Leveraged Spring IOC and dependency injection to manage application components and enhance modularity, while utilizing Spring AOP to implement cross-cutting concerns such as logging and security in a clean and maintainable manner.

- Architected microservices with dynamic service discovery, centralized configuration, fault tolerance via circuit breakers, and distributed tracing with Spring Cloud Sleuth.
- Integrated a Spring Boot application with Prometheus as a datasource and Grafana for monitoring, enabling real-time metric collection and visualizing performance insights.
- Implemented Spring Security with OAuth 2.0 and JWT to secure APIs, ensuring robust authentication and authorization mechanisms, while integrating Keycloak for centralized identity and access management.
- Developed responsive user interfaces with React components, managed state with Redux or Context API, and created backend APIs using Express.js to interact with the PostgreSQL database.
- Automated provisioning and management of AWS resources using Terraform, including EC2, S3, RDS, and VPC configurations.
- Handled Java exceptions using @ExceptionHandler to ensure robust error management, developed SOAP-based web services, leveraged GCP for cloud infrastructure, designed and integrated Rest APIs, and utilized MongoDB for flexible, scalable data storage solutions.
- Managed version control using GitHub, SVN, and Bitbucket to track code changes, facilitate collaboration, and maintain repository integrity across multiple projects.

Environment: Java 8, J2EE, XML, CSS, Java Script, HTML, Angular.js, ReactJs, Typescript, Backbone.js, JSP, Hibernate, PostgreSQL, SOAP, REST, REST API, Servlets,, Spring 4.0, Spring MVC, Spring Boot, Struts, Kafka, Docker, Kubernetes, Micro services, AWS, Eclipse, GIT, Maven, Log4j, JUnit.

Sonata Technologies, Hyderabad, India   Feb 2019 – May 2020
Software Engineer

- Implemented design patterns and architected J2EE solutions with Spring, Struts, Hibernate, Servlets, WebLogic, and JSP; utilized advanced multithreading, Spring Boot, and IOC frameworks, along with Dependency Injection and Service Locator Pattern.
- Proficient in Front-end development: HTML5/CSS3, DOJO, JavaScript, jQuery, Ajax, JSF, ReactJs, Bootstrap, AngularJS, NodeJS, ReactJs.
- Implemented real-time features with Socket.io in Node.js applications, providing instant updates and notifications to users. Built dynamic and responsive user interfaces with React.js, utilizing React Hooks for state management and Context API for efficient data flow.
- Optimized performance in React applications by leveraging React.memo and use Callback to prevent unnecessary re-renders and improve user experience. Integrated third-party APIs and services in Node.js applications, handling asynchronous operations with async/await and promise for robust data handling.
- Established and maintained continuous integration and continuous deployment (CI/CD) pipelines for Node.js and React projects, using tools like Jenkins or GitHub Actions for automated testing and deployment.
- Used design patterns such as Singleton, Factory, Business Delegate, Session Facade, Value Object, and DAO to enhance software architecture.
- Built microservices with Spring Boot, integrated Snowflake and Apache Kafka, programmed in Java (11, 1.6-1.8), managed logging with Log4J, and tracked logs using Splunk.
- Utilized streams and multithreading to enhance performance and migrated from a monolithic to a microservice architecture to improve scalability and modularize application components.
- Used Spark Streaming for Kafka log processing. Created AWS resources using EC2, Pivotal Cloud Foundry (PCF).
- Developed stored procedures, functions, and triggers in MySQL and PostgreSQL to automate database operations and enhance data integrity and performance.
- Strong experience in MongoDB: schema design, map reduce, SQL to NoSQL migrations. SDLC experience using Agile Methodology; tested Microservices with SOAP and POSTMAN.

Environment: JDK1.8, JSP, Servlet, EJB, Spring, JavaScript, Hibernate, Multithreading, Typescript, ReactJS, Cassandra, Query, PostgreSQL, Struts, Design Patterns, HTML5, CSS3, JMS, XML, Eclipse, Apache, Kafka, Oracle ECM, Java 8.0, Struts, Webservice, AWS, SOAP, bootstrap, Microservices, Docker.