**Karthik Chilakamari**

**4694764022**

**karthik.fstj@gmail.com**

**https://www.linkedin.com/in/karthik-ch-3684b4257/**

**Professional Summary:**

* Full Stack Java Developer with Around 10 years of experience building Cross Platform Web/Client-Server applications using Java, J2EE with Spring Boot Framework, MySQL, and Spring Data JPA. Build Micro services with Spring Boot back-end API rest controllers. Create Test Modules using JUnit web test client/mock repo in terms of Test-driven approach, and also CI/CD with Jenkins Pipeline and Docker
* Experience working in multi-tier enterprise applications and Client/Server applications using JAVA/J2EE and good exposure in MVC Architecture based applications using Spring Framework 4.1, Struts Framework 2.3.12, JMS, Java Beans with experience in presentation, business, and database layers
* Well versed with Java 8, JE22 7, JDBC, Servlets, JSP, JSF, Web Services, JavaBeans, JQuery, Design patterns, JPA, Micro Services, XSLT, WSDL, UDDI, JAXP, JAXB, SAX, DOM, Apache AXIS, Apache Camel
* Strong experience on Android application development and front-end development and experience using AWS
* Strong working knowledge on databases like Oracle 10g/9i/8i, SQL Server 6.5, Couchbase, MySQL 5.6.16, PL/SQL 12c and NoSQL database like Mongo DB, Apache Cassandra as distributed database
* Experienced in developing front-end webpages with HTML, JavaScript, CSS, Bootstrap and Angular, JSON, jQuery, AJAX and ReactJS.
* Experienced at using ReactJS for Data patterns, which improved readability and made it easier to maintain larger apps, used ReactJS for declarative, efficient, and flexible JavaScript library for building user interfaces.
* Experience in handling operations and maintenance support for AWS cloud resources, which includes maintaining EC2 instances and S3 buckets, Relational Database Services (RDS) and DynamoDB.
* Ability to monitor the logs in Cloud Watch in AWS and metrics in PCF along with Event monitoring in Spunky.
* Experience with using IDE i.e., Eclipse, NetBeans, IntelliJ IDEA, STS.
* Experienced with Version Control using SVN, GIT, Bit bucket and logging using Log4J.
* Experienced in writing CFT in AWS for provisioning custom cloud infrastructure and configuring API Gateway with Lambda functions in multiple runtimes integrated with triggers for SNS.
* Experienced with relational databases like Oracle, MySQL, SQL Server and non-relational databases like Mongo, Cassandra and Couchbase.
* Used Jenkins for building java-based application and deploying it to various environments.
* Proficient in writing the Test scripts using Selenium (web drivers) to automate the given functionality.
* Experienced in using Apache Kafka for handling real time data with very high throughput.
* Experience in Application servers like Web Logic, Web Sphere, JBoss and Web Servers like Apache Tomcat.
* Experienced in AWS Batch for running multiple jobs processing and in using AWS SDK with spring micro services to integrate the AWS resources in the application.
* Extensively worked on Maven and Gradle to install and manage dependencies along with resolving vulnerable packages.

**Technical Skills:**

|  |  |
| --- | --- |
| Languages | Core Java, J2EE, Python |
| Markup Languages | XML, JSON, HTML5, CSS3 |
| J2EE Technologies | Servlets, JSP, JDBC, JNDI, Swing |
| Web Technologies | HTML5, CSS5, XML, JQuery, Java Script, Angular JS 1.3, JSF, Node.js, React JS |
| Tools & IDE | Eclipse IDE, Net Beans IDE, Visual Studio |
| Version Control | GIT, SVN, CVS |
| Web Servers/ Application Servers | Apache Tomcat, WebLogic, WebSphere, Jboss Fuse and Glassfish |
| Databases | Oracle 11g, MySQL, DB2, Mongo DB, Firebase, Oracle PL/SQL Apache Cassandra, Hadoop |
| Java Frameworks | Spring 3.x, Hibernate 3.x, Struts 2 |
| Design Patterns | Dependency Injection, MVC, Singleton, Adaptor, Factory, Gate Way, Façade, MVP |
| Testing | Junit, ALM, ETL, TestNG, |
| Build tool | Ant 1.8, Maven.NIFI, Docker, Gradle |
| Web Services | Apigee and RESTful Web Services, SOAP Web Services -JAX-WS-API |
| Development Methodologies | Agile, Waterfall |
| Operating System | Windows, UNIX, Mac OS X, Ubuntu, Linux |

**Work Experience:**

**Client: Airterra Seattle, WA (Hybrid) Jun 2020 – Present**

**Role: Full Stack Java Developer**

**Responsibilities:**

* Involved in various phases of Software Development Life Cycle (SDLC) such as requirements gathering, modelling, analysis, Design, Development, and Testing.
* Followed agile methodology, interacted with the client, provided/took feedback on the features, suggested/ implemented optimal solutions and tailored application to customer’s needs.
* Developed multiple micro services using spring boot and wrote security policies for those applications restricting the access to the endpoints to the public.
* Worked on various monolith applications, upgrading, and optimizing the endpoints, debugging, and fixing the critical bugs.
* Deep expertise in HTML5, CSS3, and JavaScript frameworks and libraries
* You will solve complex technical problems that other team members may encounter, review, and enforce the quality of code written within your team as an integral part of a Scrum team
* Occasionally you can be involved in geographically distributed projects, having to work for short periods of time in other Endava Delivery Centers (i.e. in USA, UK)
* Write robust front-end code with HTML5, CSS3, and JavaScript frameworks and libraries to implement enterprise-class web applications
* Work closely with development teams to ensure accurate integration of machine learning models into firm platforms.
* Performed SONAR analysis on the applications and fixed major code smells and issues related to them along with writing test cases for improving the code coverage.
* Used Maven as a build tool and for resolving the dependencies for the applications.
* Set up Jenkins’s server and build jobs to provide continuous automated builds based on polling the GIT source control system during the day and periodic scheduled builds overnight to support development needs using Jenkins, GIT, JUNIT and Maven.
* Used Splunk for checking the logs and monitoring the deployed applications.
* Worked on creating validation and deployment pipelines for various applications to integrate with Jenkins.
* Implemented Kafka producer and consumer applications on Kafka cluster setup with help of Zookeeper.
* Optimized data collection procedures and generated reports on a weekly, monthly, and quarterly basis
* Used Couchbase DB for caching the data so that can retrieve faster. Automated and streamlined build-test-release cycle by using CI/CD tool GoCD.
* Designed and implemented an event-driven architecture using Amazon SNS, Amazon SQS, and Apache Kafka to enable seamless communication between various components of the logistics system.
* Leveraged Amazon SNS to broadcast critical order updates to stakeholders, resulting in improved transparency and reduced manual communication efforts by 25%.
* Collaborated with cross-functional teams to integrate the logistics platform with third-party systems, utilizing Amazon SQS for asynchronous communication to enhance system reliability.
* Have exposure to ELK stack (Elastic, Logstash and Kibana) and used to debug prod issues by querying logs on Kibana.
* Developed AWS Lambda functions to process incoming events, triggering real-time updates to order statuses and inventory levels, reducing order fulfillment time by 30%.
* Developed and designed web pages using with HTML5, CSS3, Ajax, Angular4 and jQuery based on the w3 standards.
* Implemented consumer applications using Apache Kafka to ingest and process high-volume data streams from IoT devices, ensuring timely monitoring of shipment locations and conditions.
* Leveraged Python for scripting and automation tasks, streamlining deployment processes and reducing manaual intervention.
* Developed Python scripts to automate data processing and analysis, enabling faster decision-making based on real-time data insights.
* Utilized Hive to create optimized queries for extracting insights from the processed data, enabling data-driven decision-making.
* Implemented Hadoop-based data processing pipeline to handle and analyses large-scale data efficiently.
* Leveraging Hadoop's capability for predictive modeling and pattern recognition.
* Validations are done using SoapUI, Postman and Ready API testing tool framework in different environments.
* Used GitHub for source control and helped team with code management process.
* Learned about Cable/Telecom/Wireless services and got a good exposure on authenticating customers, understanding customer plan/packages information, billing information, device provisioning and troubleshooting device issues etc.

**Environment:** Java, Kafka, Spring WS, Mockito, Jenkins, IntelliJ IDEA, Spring boot, Micro services, Python, Bitbucket, Jira, Splunk, AWS Code commit, Postman, AppDynamics, ARA, PCF, Spring IOC, Gradle, SQL

**Client: Express Scripts Inc, NJ March’ 18 to May’ 20**

**Role: Full Stack Java Developer**

**Responsibilities:**

* Followed Agile methodology and involved in daily SCRUM meetings, sprint planning, showcases and retrospective and used JIRA as a tracking tool for the sprints.
* Designed the front-end screens using AngularJS, HTML5, CSS3, JavaScript, JQuery, Bootstrap and Spring Boot.
* Developed Angular controllers, services, filters and developed HTML templates with various Angular directives such as ng-app, ng-controller, ng-repeat, ng-if,ng-show, ng-hide,ng-change, ng-blur etc..
* Developed Grid’s used in the system using Slickgrid and created custom grid directive to make the component reusable.
* Implemented Micro services architecture using Spring Boot for making application smaller and independent.
* Used the Lambda Expressions and Streams in Java 8 for writing the business logics.
* Developed RESTful web services and worked on migrating the SOAP services to REST by completely rewriting the application, also created an adapter API to convert the responses.
* Used Maven as a build tool and for resolving the dependencies for the applications.
* Used Swagger UI to test the RESTful API for HTTP requests such as GET, POST, and PUT.
* Involved in gathering business requirements, analyzing the project by working in AGILE Methodology
* Environment, which includes Test Driven Development (TDD) planning, grooming and backlogs.
* Developed Client Validations using Java Script and server-side validations using spring validation framework.
* Wrote Controller classes in Spring MVC framework in the web layer.
* Used version control tool i.e. GIT for pushing and pulling also, coordinating within team members.
* Used ANT scripts for automated deployment and preparing the build of the entire application.
* Deployed the applications on IBM Web logic Application Server.
* Completely documented the flow and functionality of the code for further reference.
* Involved in walk through with the analysis for Use Cases and feasibility scope.
* Developed front-end using JSPs, HTML and used JavaScript for client-side validations.
* Implemented Session beans that encapsulate the backend business processes.
* Used JMS (Java Messaging Service) for asynchronous communication between different modules.
* Worked on creating validation and deployment pipelines for various applications to integrate with Jenkins.

**Environment:** Java, J2EE, Spring Tool Suite, HTML, CSS, JavaScript, Angular 10, Tomcat, Spring Boot, JPA, Micro services, Postman, Swagger, REST, My SQL, JUnit, Slf4j.

**Client: Info-Sun Technologies Private Limited May’16 – Feb’18**

**Role: Full Stack Java Developer**

**Responsibilities:**

* Designed the system with OOAD methodology using various design patterns like factory method, Singleton, Adaptor, Template etc.
* Used tools like My Eclipse IDE configured and deployed the applications onto Web Logic application server
* Wrote simple and complex queries to perform operations on data from relational database NoSQL Server.
* Configured Maven for dependency management, Log4j for logging and debugging and Git for version control
* Implemented and planned the server-side architecture using Spring and Hibernate
* Designed and implemented Struts (MVC Paradigm) components such as Action Mapping, Action class, Dispatch Action class, Action Form, Dyna Action Form, Validation Framework, Struts Tiles and Struts Tag Libraries.
* Use Spring Cloud Security and API Gateway for authentication and authorization.
* Involved in developing code for getting bean references in Spring Framework using Dependency Injection and IOC in order to maintain code flexibility and minimize code reuse.
* Based application on Spring MVC design pattern, implemented it using ORM mappings, AOP.
* Developed RESTful web services with controllers and services, authenticated RESTful API using Oauth2, and worked on REST API for getting and posting the data to and from backend. Created Spring Boot Micro services project using Spring Initializr.
* Implemented Micro services using Spring Boot, Spring Cloud and implemented Zipkin for distributed Micro service monitoring along with Swagger UI for API documentation and worked with a Kafka team for messaging service.
* Implemented Spring Transaction Management, preventing overlapping transactions b/w multiple users.
* Allowed for the rollback of transactions that go through multiple API through the use of Saga and Orchestration Architecture through the use of workflows.
* Developed a client-side layer and created components, services, modules and routes using Angular, HTML5, CSS3, Bootstrap and TypeScript.
* Used Angular with Responsive Web Design to make the data manipulations used log4j for logging errors found when testing the application.
* Developed Junit test cases along with testing object dependencies using Mockito.
* Used Git for maintaining the version of the files and managing source code used by the team and using Jenkins for Continuous Integration.
* Project Managed using JIRA software to keep track of software Tickets.
* Developed AWS notification services such as SES, SNS, SQS with AWS Java SDKs, used Maven for deployment and build management tools and created connections to servers using AWS to create EC2 instances.

**Environment:** Java, J2EE, IntelliJ, Tomcat, Spring, Spring Boot, Spring Batch, Hibernate, Micro services, Swagger, CSS, Boot Strap, JavaScript, Angular, Node js, REST, Postgress, JUnit, Slf4j.

**Client: Soft sol India Ltd June’13 – April’16**

**Role: Full Stack Java Developer**

**Responsibilities:**

* Used Hibernate to persist the data into the database, Criteria API, HQL to ace ss/update the data from/to database.
* Used the Collections API, Generics while developing code.
* Transaction Management and Fine Grain Access to data with Spring AOP, bean injection is implemented with Spring IOC.
* Developed the UI Layer using JSP, JavaScript, jQuery, JSTL and XML.
* Developed Message Driven Beans (MDB) using JMS 1.1 to exchange messages between different applications.
* Developed EJB components (Session Beans, Entity beans) using EJB design patterns to business and data process.
* Developed User Interface validation framework in combination with custom validation built on top of validation framework from the form bean.
* Actively involved in interacting with business users to record user requirements, created the Functional Specification Documents (FRD’s), and remodelled the existing architecture.
* Participated in Code migration and resolving code conflicts while moving to different environments.
* Used jQuery and JSF validation framework for front-end validations.
* Developed the custom Logging framework used to log transactions executed across the various applications using Log4j.
* Designed Graphical User Interface (GUI) applications using HTML, JSP, JavaScript, and CSS.
* Used JavaScript as the scripting language and is used for detecting the visitor’s browser, validating the forms, providing event functions, animations etc.
* Used AJAX for getting values into drop down list from database.
* Involved in Integration to integrate with external systems using SOA (Web services, WSDL, SOAP, UDDI, and XML).
* Used data source to connect database.
* Involved in manual testing.
* Developed, Tested and Deployed application in Apache Tomcat 7.0 server.

**Environment**: JSP, HTML, JavaScript, AJAX, EJB2.0, Struts MVC, AJAX, Eclipse, JSP, Hibernate, HTML, Spring, XML Web Services, Log4J, JUnit, ANT, MySQL, CVS, PL/SQL, UNIX, JMS Eclipse

**Education:**

* Bachelor degree in Computer Science from JNTUH, India in 2013.