**RAJESH KUMAR A**

[rajeshkumar17112023730@gmail.com](mailto:rajeshkumar17112023730@gmail.com)

**+16785767839**

[**https://www.linkedin.com/in/rajesh-kumar-ayyavu-5196581b/**](https://www.linkedin.com/in/rajesh-kumar-ayyavu-5196581b/)

**Profile**

* 13 years of extensive experience in Design, Development & Testing of software applications and leading the offshore team for deliverables.
* Experience in Financial, Healthcare, Media domains.
* Expertise in multi-tier service oriented and web based J2EE applications and working in AWS cloud environments.
* Strong J2EE/Java application architecture, modelling and development background, with experience in defining functional/technical specifications.
* Expertise in several J2EE Technologies like Mybatis, JPA, SpringJdbcTemplate, JDBC and JSF.
* Excellent working knowledge of popular frameworks like Spring, Hibernate.
* Experience in creating micro services using Spring Boot and excellent experience in consuming restless web services with Postman.
* Experience in handling messaging services using Apache Kafka, RabbitMQ.
* Experience in working in both Windows and Unix platforms including programming and debugging skills in Unix Shell Scripting.
* Extensive experience in developing Use Cases, Activity Diagrams, Sequence Diagrams and Class Diagrams using UML Rational Rose and Visio.
* Extensive experience in Java/J2EE programming - JDBC, Servlets, JSP, JSTL, JSF, JMS.
* Experience in Spring Framework such as Spring IOC, Spring Boot, Spring Cloud, Spring DAO, Spring ORM, Spring Resources, Spring JDBC, Spring wicket, Micro-Services
* Expert knowledge over J2EE Design Patterns like MVC Architecture, Front Controller, Session Facade, Business Delegate and Data Access Object for building J2EE Applications
* Good exposure in Google android SDK framework with Eclipse and Android Studio
* Highly result oriented and pro-active with the ability to learn new technologies quickly and implement them successfully in production.
* Expertise in reviewing and prioritizing client requirements, creating project proposals (scope, estimation) and baseline project plan, and devising effective Design Flows.
* Expertise in Normalized Database Design and writing Sub Queries, Stored Procedures, Functions.
* Expertise in using business analysis and Design tools like Lucid charts, draw.io.
* Expertise in creating Conceptual Data Models, Process/Data Flow Diagrams, Use Case Diagrams, Class Diagrams, State Diagrams, Sequence Diagrams & Activity Diagrams.
* Experience in estimating, project planning (specialized in development phase, testing phase & implementation phase).
* Ability to transform complex business requirements into technical design specifications.
* Capable of working independently as well as a part of dynamic team. Ability to quickly grasp business domain.

**Technical Skills**

**Software Development Methodologies:**  Iterative Model (Agile Development), Waterfall Model.

**Analysis Methods:** Object Oriented Analysis and Design (OOAD).

**Java Technologies:** CORE JAVA, Java EE [Spring Boot, JDBC].

**Languages:** Java, PL/SQL, Node JS

**Cloud Environment:** AWS.

**Application Servers:** Apache-Tomcat, Nginx

**IDE:** IntelliJ Idea, PyCharm, STS, IBM Rational Application Developer 7.5 \ 8.0, Eclipse Indigo\Galileo

**Database:** Postgres, MySQL, Oracle Database 9i \ 10g \ 11g, Mongo DB

**Frameworks:** Spring Boot, Spring (MVC, Web flow, Batch), Hibernate \ 3, Log4j, Mybatis

**Script Technologies:** Java Script [jQuery, Ajax, JSON]

**Design Patterns:** Singleton, Business Delegate, DAO, DTO, Intercepting Filter, Dependency injection, MVC, Factory pattern

**Build Tools:** Gradle, Maven

**GUI Base:** HTML, CSS

**Version Control Tools:** GitHub, SVN

**Developers Testing:** JUnit, Cucumber BDD Testing, Postman

**Other Tools and Techniques:** Swagger2, PGAdmin, MySQL Workbench, Toad for Oracle, SQL Developer for Oracle.

**Education Qualifications**

Bachelor of Electrical and Electronics Engineering, KSR College of technology, Anna University, Chennai, India, 2010.

**Professional Experience**

Capital one Auto Finance – (Wisdom Infotech) Jul 2021 – Till date.

**Role:** Java Backend Developer

* Design and develop programming systems making specific determinations about system performance.
* Responding promptly and professionally to bug reports.
* Developed backend services and RESTful APIs using Java 17 frameworks, including Spring Boot, ensuring efficient data processing, integration, and the incorporation of microservices.
* Experienced ELK Stack Engineer proficient in log data management, advanced querying, and dynamic dashboard creation for enhanced system insights and troubleshooting.
* Expected to conduct system analysis and development, with limited support from professional staff, to keep our systems current with changing technologies.
* Involved in coding, building of Java applications using Core Java, Collections and Multithreading.
* Worked closely with Oracle database in backend to interconnect with user interfaces using native complex SQL queries.
* Wrote JUNIT test cases for testing all spring service calls and Spring MVC validations.
* Used Spring Boot at back end which helps to develop application with ease.
* Worked on creating CSS style, JavaScript, and AJAX.
* Worked in an Agile Scrum Development environment.
* Designed and developed RESTful web services that support JSON for other developers to access to speed up development using Spring MVC, Spring Boot, Web Services, JSON, Log4j, RESTful
* Wrote Spring services in the service layer for Oracle data retrieval operations using Hibernate.
* Involved in code reviews with the team lead and manager and assist them with different solutions to resolve a problem.
* Worked on logging module Log4J to create log files to debug as well as trace application.
* Used JUnit, Mockito, Power Mock framework for unit testing of application and ANT to build the application.
* Configured Kafka to read and write messages from external programs.
* Configured Kafka to handle real time data.
* Involved in creating serverless functions in a Java 17 environment, using the language's modularity for lightweight, event-driven tasks.
* Experienced in using Java 17 specific features like sealed classes, pattern matching, and records for cleaner, more readable code.
* Experienced working on ELK (Elastic stack) for searching, analysing, and visualizing large volumes of data in real-time.
* Wrote and modified SQL queries and stored procedures for the application to communicate with Database. Oracle10g used as backend, Worked on SQL queries for persistence of Business Objects
* Used Selenium and Cucumber for some part for automation testing.
* Developed story on the Policy file load on Gap limit for the dealers.
* Developed a small ETL util to help the Data analyst to check the Address mismatch for the applicant and co-applicant.
* Implemented a new export variable for the income mismatch from the Decision engine for the Policy engine to consume.
* Implemented new logic to compute the living expense calculations.
* Implemented a spring boot command line util to evaluate the calculated APR for usury remediation.
* Implementing Appraisal model in both ideal and policy engine for calculating evaluating whether the deal is better for the bank.
* Deploying application to AWS cloud server.

**Environment**: Java 17, Spring Boot, Drools, AKKA framework, ELK Stack, AWS, Jenkins, Git, Microservices, Docker, Oracle SQL, Pl/SQL.

LKQ Self Service inventory – (Object Frontier Inc) Apr 2021 – Jun 2021

**Role:** JAVA Full stack Developer

Responsibilities:

* Explore the existing application and understand the functionality of the application.
* Refining / Groom the stories ready for development
* Develop the stories and fix and defects reported by QA.
* Experienced in Kafka Producing messages and Consuming messages.
* Experienced in Kafka Streaming like source, Transformer and Sink
* Involved in various phases of Software Development Life Cycle (SDLC) which includes requirement gathering, modeling, analysis, architecture design and prototyping.
* Used Node.js for server-side code and Express.js as the framework. Written callback functions for the Restful API.
* Implemented Microservices using Spring Boot, Cloud Foundry, and Spring Microservices and enabled discovery using the AWS cloud services.
* Designed Java 1.8 Components and integrated using spring framework with Hibernate Object/Relational persistence mechanism.
* Worked on Java 1.8 functional programming concepts like Streams, Functional Interfaces, new date time API and lambda expressions.
* Implemented the application using Spring IOC, Spring MVC Framework, and Spring Batch and handled the security using Spring Security.
* Produced the Webservices using Apache CXF API'S like JAX-WS, JAX-RS, and JAX-RPC.
* Developed the web interface using HTML5, CSS3, JavaScript, jQuery, AngularJS, React.js, and Bootstrap.
* Creating new React components, containers, services, and APIs.
* Responsible for React UI and architecture. Building components library, including Tree, Slide-View, and Table Grid.
* Implemented stable React components and stand-alone functions to be added to any future pages.
* Used React JS for templating for faster compilation and developing reusable components.
* Developed a front-end mobile application using React Native, Redux, Flex and JavaScript.
* Worked on Redux with React Native to handle large chunks of data for the better performance.
* Used Middleware, Redux-thunk in application to retrieve data from Back-End and to also perform RESTFUL services.
* Identified and fixed various production issues related to IBM MQ server on Linux, UNIX, and Windows system.
* Built and maintained several servers and workstations including Windows Server and desktop variants, Ubuntu Server and desktop variants, Fedora, and CentOS.
* Kubernetes is being used to orchestrate the deployment, scaling, and management of Docker Containers.
* Used Azure deployment services to quickly set up a dynamic website and configured virtual servers.
* Involved in integrating JAX-RS into Spring Boot application.
* Responsible for Continuous Integration (CI) and Continuous Delivery (CD) process implementation using Jenkins along with LINUX Shell scripts to automate routine jobs.
* Developed modular code for connecting/fetching Oracle/Cassandra database which can be reused across the teams.
* Used Swagger to interact with API endpoints of the microservices.
* Developed the Microservices using Spring Cloud with components of Netflix OSS (Eureka, Zulu).
* Used XML parser APIs such as JAXP and JAXB in the web services request response data marshalling as well as unmarshalling process.
* Implementing Spring MVC with Spring Boot which includes writing Controller classes for handling requests, processing form submissions and performed validations.
* Used Hibernate to store the persistence data into the IBM DB2 UDB database and written HQL to access the data from the database.
* Used a Microservice architecture with Spring Boot based services interacting through a combination of REST to build, test and deploy identity Microservices.
* Implemented microservices using Pivotal Cloud Foundry (PCF) platform build upon Spring Boot Services.
* Implemented modules into Node.js to integrate with designs and requirements.
* Involved in consuming SOAP based web services so that the business application can integrate with legacy applications and facilitates for future applications.
* Implemented authentication and authorization of the application using Spring Security and OAuth2.
* Consuming the Kafka message which are produced by different microservices and modified the rule engine process to handle Kafka message as per the business intent.
* Developed the persistence layer using Hibernate Framework, created the POJO objects and mapped using Hibernate annotations and Transaction Management.
* Modified the Avro schema of the Kafka message based on the business requirement.
* Involved in writing Spring Configuration XML, a file that contains declarations and business classes are wired-up to the frontend managed beans using Spring IOC pattern.
* Developed Java code for functionalities which are not supported in LISA tool like "Cassandra" NoSQL database connectivity.
* Worked on Azure VPN-Point to site, Virtual Networks, Azure Custom Security, End point security and firewall.
* Involved in building the messaging services with Azure Service Bus.
* Monitoring the CI/CD pipeline with Azure DevOps (PaaS).
* Involved in deployment infrastructure with Terraform for Azure.
* Worked on developing web service calls using SOAP and WSDL.
* Involved in installing, upgrading, configuring and Troubleshooting IBM Web Sphere Application Server and IBM MQ on AIX and Linux.
* Involved in generating logging by Log4j Framework to identify the errors in production test environment and experienced in Ant, Maven Tools.
* Developed Angular Components, Services, and Filters and took part in developing unit test and integration test cases using Jasmine, Karma.

Environment: Java, Azure, Agile, Spring IOC, Spring MVC, Spring Boot, Spring Cloud, Spring Batch, Spring Security, HTML5, CSS3, Node.js, React.js, Redux, Flux, React Native, Bootstrap, jQuery, AJAX, Microservices, Hibernate, Restful API, SOAP, JAX-RS, Swagger, JSON, Kafka, SQL, Oracle, CI/CD, Cassandra, NoSQL, PCF, Jenkins, JIRA, MAVEN, JUnit, UNIX, WebSphere, GIT.

LKQ RF Guns– (Object Frontier Inc) Aug 2020 – Apr 2021

**Role:** JAVA Full Stack Developer

* Developed the application using agile methodology - brought out the best in team by collaboratively working with other developers and partnering with architects.
* Analysed business requirements, participated in technical design, development and testing of various modules assigned Solved problems using a combination of JSON, and JQUERY
* Responsible for creating efficient design and developing Single Page Application (SPA) using AngularJS, Angular 9, HTML5 template handlers, CSS3, React.js.
* Worked on Java/J2EE development full stack development which involves end to end coding.
* Moved existing AngularJS controllers and services to Angular 9 components for more responsive and less dependency.
* Co-ordinate with UX designers and develop static content using front end with HTML 5, CSS3, Node.js, and Angular JS.
* Extensively used CSS3 and Bootstrap for styling the HTML5 elements.
* Used Hibernate, JPA object relational mapping (ORM) solution, technique of mapping data representation from MVC model to Oracle Relational data model with an SQL-based schema.
* Used Spring Framework AOP Module to implement logging in the application to know the application status.
* Developing the Microservices using Spring Boot that create, update, delete and get the assignment information from backend and handled the security using Spring Security to enable the application to be deployed on AWS EC2 Server Cloud.
* Deploy and configure daily iterative builds of Java 11 applications into Tomcat server environments for multiple feature deployment teams.
* Involved in implementing functional styles of Java 1.8 Lambda Expressions and functional interfaces, parallel Streams.
* Developed Microservices using Spring Boot, Spring Cloud with Netflix Eureka to create the discovery Server, service, discovery clients and integrated Apache Kafka and Zookeeper as message broker. Used Swagger to design and document Microservices.
* Working on creating a distributed network by hosting the application on AWS cloud, Amazon EC2 servers.
* Project migration into cloud environment using AWS like EC2. Storage using S3 bucket and configuring instance backups to S3 bucket.
* Deployed and Monitored Microservices Using Pivotal Cloud Foundry (PCF) and managed Domains and Routes with the Cloud Foundry.
* Used Docker to containerize the Services and APIs to run on EC2 instances and implemented the build stage to build the Microservices and push the Docker Container image to deploy into AWS environment.
* Used Kubernetes Linux container for deploying and scaling containerized applications.
* Implemented fail safe and circuit breaker patterns in Spring Boot, Microservices applications using Hystrix.
* Implementing authentication using OAuth2 and JSON Web Token (JWT).
* Retrieve data from client side and made REST API calls from Angular 9 and parsed the data to project client and handled the security and Authorization using OAuth2 and JWT.
* Involved in MongoDB development (reports, schema design, map reduce functions) and migration from SQL relational database to NoSQL databases like MongoDB.
* Used JUnit for unit testing, integration testing and production testing and writing Unit Tests using JUnit, Mockito.
* Built CI/CD process using Git, Jenkins, Docker, Artifactory and Ansible.
* Involved in building the CI/CD pipeline using Groovy scripting involving GitHub, Jenkins, Docker, Artifactory and Ansible.
* Created Auto deploys jobs using Jenkins.
* Used GIT for version control.
* Wrote the test cases using the testing framework Jasmine and run those tests in the Karma test runner.
* Helped QA in developing Automation scripts using Selenium, Cucumber and QMetry Framework.

Environment: Java 1.8/11, Kafka, JavaScript, Angular 9, Node.JS, HTML 5, CSS3, MVC, Spring Boot, Spring cloud, Microservices, REST API, Hystrix, AWS, EC2, PCF, OAuth2, Swagger, Hibernate, Jenkins, JASMINE, jQuery, JUNIT Bootstrap, JSP, AJAX, Mongo DB, NoSQL, Oracle, Git, Spring MVC, Firebug, Agile

Ciox Health Source ROI – (Object Frontier inc) Apr 2019 – Jan 2020

**Role:** Java Developer

* As a Backend developer, analysing the business requirements and implementing the services in Spring boot and test with Postman.
* Created detailed solution design and technical architecture documentation for medical record upload to replace the inque module.
* Implemented monitoring, logging and analytics using New Relic, ELK stack. Enabled tracking of key business metrics and system health.
* Collaborated with business teams to clarify requirements and developed user interface.
* Implemented UI and Rest API for multiple redact for the pdfs uploaded.
* Implemented Custom UI components using Angular JS directives.
* Worked with Angular JS Controllers, Directives, Services, and filters for application functionality.
* Used Spring Boot which is radically faster in building cloud Microservices and develop Spring based application with very less configuration.
* Used Angular JS to create views to hook up models to the DOM and synchronize data with server as a Single Page Applications.
* Created single page application structure with multiple modules using Angular, TypeScript.
* Developed SQL queries in JAVA as well as individual store procedures for deployment.
* Practiced coding standards in all the development activities.
* Written and executed unit test cases and documented the results.
* Analyse sonar report for code quality and implement changes to stabilize the code.
* Done Code Review of team members and merge changes to the main branch for deployment.
* Demonstrate work in progress to team for any feedback and changes.
* Collaborated with QA during Regression testing & Performance improvisation.
* Collaborated with Devops during environment issues.
* Production issues fix and support during deployment.

**Environment:** Java 8, Spring, Mybatis, Log4j, Oracle, AngularJS, IntelliJ Idea, GitHub, Postman, Maven, Jenkins, Junit, Mockito.

Ciox MDM — (Object Frontier Inc) Oct 2018 – Mar 2019

**Role:** Java Developer

* Followed Agile, work with business partners in sprint planning, gather requirements and brainstorm with the team for a given story.
* Work with the team and sequence the user stories as per technical dependencies for every release.
* Developed and Configured the ETL Batch JOB for loading excel data from share path.
* Developed the DB Scripts/Procedures for Development and Deployment.
* Design and Configured DB to load data from multiple channels.
* Used Mockito framework to create and configure mock objects along with Junit to perform unit testing.

**Environment:** Java 8, Spring Boot, Spring boot, AngularJS, PostgreSQL, AWS EC2.

IFF – (Object Frontier Software) Jan 2018 – Sep 2018

**Role:** Java Developer

* Worked closely with the client architect for requirement gathering and development.
* Designed and developed two successive releases Puma and Group Evaluation module.
* Integrated JSON based Web Services with UI to display the data.
* Developed Rest API using NodeJS.
* Prepared effort estimation for the client requirements
* Written SQL/stored procedure to store and retrieve data from the database.
* Analyse sonar report for code quality and implement changes to stabilize the code.
* Demonstrate work in progress to team for any feedback and changes.
* Following Agile, work with business partners in sprint planning, gather requirements and brainstorm with the team for a given story.
* Work with the team and sequence the user stories as per technical dependencies for every release.
* Writing API specs using swagger, developing spring boot REST APIs, and doing API performance testing using J-METER

**Environment:** Angular 5, Node, SQL, Nginx, Jenkins, Git.

Chola Finance – (Object Frontier Software) Nov 2016 – Dec 2017

**Role:** Sr. Java Developer

* Reviewed and discussed the BRD to analyse the requirements for the project and contributed to the proposed System Architecture.
* Implemented the services in Spring Rest web services.
* Contributed to the design of the Database schema, setup the database in Oracle 11g and created corresponding DAOs with help of Spring Jdbc Template.
* Involved in architectural design for making service calls from web service client (PPSC application) to service provider via Data power.
* Effectively interacted with Design Team members and contributed to LL Design and Interaction Sequence Flows.
* Created the technical documentation including the Function Specifications, ER Diagram, LL Sequence Flow Diagram, and Service specifications.
* Defined the required services based on the design and finalized the method signatures.

**Environment:** Java 1.6, Spring Rest 4.1.0, SpringJdbcTemplate, Log4j, Oracle 11g, Oracle SQL Developer, IBM WebSphere 8.0, UML, MKS, Microsoft Visio, IBM RAD 8.0.

My Eczema mobile survey app – (Object Frontier Software) Jul 2016 – Oct 2016

**Role**: Sr. Java Developer

* Involved in design and development using Ionic App.
* Created user defined components, templates and integrated with final product.
* Developed the user registration and authentication handling modules.
* Supported testing team during the testing process.
* Created API using AWS lambda function.
* Used DynamoDB to store the data.
* Used SNS notification to send push notification to the end system.
* Configured S3 for storing the documents from the app.
* Developed SQL queries to retrieve data from database.

**Environment:** Ionic 1.X (Cordova, Gulp), AWS (lambda, DynamoDB, SNS)

CNN mobile app for Breaking News – (Object Frontier Software) Nov 2014 – Jun 2016

**Role:** Sr. Java Developer

* The project goal was to re-design and enhance an existing News app for a leading media and broadcasting company in the USA. This application contains the following features,
* Stay informed with the latest headlines from around the globe.
* Get breaking news alerts.
* Follow up-to-the-minute reporting with breaking news alerts and live video.
* Share stories and videos and comment on top stories.
* View latest news under several topics such as international, politics, opinion, technology and entertainment stories.
* Watch video clips and coverage of live events.
* View your favourite live shows.
* Developing and supporting SDK version 23 & above
* Developing UI components using Android UI Layouts
* Developing live streaming, news and photo gallery features
* Implementing casting videos using Chromecast device
* Implementing data caching and smart fetching
* Redesigning several existing modules
* Working in GCM for sending push notifications and breaking news alerts
* Configuring Volley API to fetch and cache the Images online for the app.
* Fixing issues and enhancing the applications.
* Involved in device specific testing for validating touch behavior, memory handling and performance.
* Developing UI Components and customized it based on the requirements.
* Performing client-side validation for front-end
* Performing unit testing and bug fixing
* Supporting play store submission

**Environment:** Android SDK, Java.

PGA & Ryder cup – (Object Frontier Software) Feb 2014 – Oct 2014

**Role:** Software Engineer

* Creating working Prototype models based on information from requirement gathering meeting.
* Responsible for design and hands on code development of use cases for each release.
* Thoroughly inspected quality of deliverable prior to delivery to client.
* Provided technical support to other team members.
* Prepared and performed unit test cases and issue fixing respectively.

**Environment:** Android SDK, Samsung SDK, Java, AngularJS.

Cbeyond Partner Portal – (Object Frontier Software) Jul 2013 – Jan 2014

**Role:** Software Engineer

* Involved in requirements analysis and business need understanding.
* Involved in understanding the use case, class diagram and sequence diagram to develop the application.
* Supported to created technical specifications from the functional specifications.
* Responsible for writing specifications, code development and test case creation and execution
* Involved in peer-to-peer code review.
* Involved in unit testing, bug fixing and deployment of the system,

**Environment:** Java, JavaScript, jQuery, SQL Server, Tomcat, ANT, Jenkins, Eclipse, Vagrant.

Ty Metrix – (Object Frontier Software) Jan 2012 – Jun 2013

**Role:** Software Engineer

* Involved in requirements analysis and understanding of business need.
* Designed the UI screens and wrote the code behind functionalities for Blackberry and Android.
* Designed and developed adaptive UI for both Tablet and Mobile devices using native SDK.
* Involved in unit testing, bug fixing and deployment of the application.
* Involved in R & D activities for application support.

**Environment:** iOS, Android, Windows Phone, Blackberry, HTML, CSS, Rest Services, Microsoft .Net WCF, IIS, JProfiler.

Nursing Drug Handbook – (Object Frontier Software) May 2011 – Dec 2011

**Role:** Software Engineer

* Designed and developed interfaces.
* Developed UI screens, source code and performed table design changes.
* Provided technical and investigative support for functional users on interfaces, defects, change requests, debugging issues, testing.
* Performance tuning, SQL query enhancements, code enhancements to achieve performance targets.

**Environment:** Android, iOS, Java, Spring, Spring MVC, Hibernate, REST, Oracle 10g, JBoss, Hudson.

BIOS – (Object Frontier Software) Jan 2011 – Apr 2011

**Role:** Trainee Software Engineer

* Worked in Embedded software to configure the application and Operating system for a shipping company in Sweden.
* Successfully fixed the modem issue and also configured the OS to identify the USB port

**Training:**

**10/2010 - 01/2011**

Joined as a trainee software engineer and got training on the following.

C, C++, HTML, CSS, XML, JAVA,