**Vikranth**

[Vikranthvirat777@gmail.com](mailto:Vikranthvirat777@gmail.com)

**+1 682-207-8031**

**Professional Summary:**

* Around 10+ years of total experience in Software development, Automation, CI/CD pipelines, Functional testing, implementing, and leading multiple projects.
* Develop highly complex and integrated enterprise applications with superior web experiences meeting highest security and legal compliance standards and all non-functionals including scalability, resilience, configurability, and upgradeability.
* Unmatched expertise in Java 8 and Java 11 technologies, including method references, functional interfaces, lambda expressions, default methods, and optional classes. Additionally, there are Java Collections like List, Set, Map, Queue, etc. Sorting, searching, and streaming are all possible with these collections.
* Well-versed in algorithms, exception handling, data structures, multi-threading, and collections, and have extensive practical experience in these areas.
* Good experience in using the Spring Initializer website to create new projects and selecting build tools and other settings.
* Experience with creating Docker Image file and containers and deploying it to AWS.
* Hands-on experience with various AWS service like EC2, Lambda, S3, Elastic Load Balancer, SQS, Elasticache (Memchache, Reddis).
* Completed projects using Java, J2EE, EJB, SPRING, Struts, HIBERNATE, IBATIS, WEBSERVICES, RMI, Servlets, JSP, Angular 2 & 4, Flex, JSF, JNDI, JDBC, JMS, JTS, JavaScript, HTML, SOAP and XML, XSLT, SQL, PLSQL, Ajax, Maven, Ant-build scripts.
* Worked with Spring Boot concepts like integrated Tomcat, startup POMs, actuator endpoints, etc.
* Excelled in Spring Boot, Spring Cloud, Spring MVC, Spring Batch, Spring Security, Spring Data JPA, Spring Kafka, HTML, CSS, Javascript, React.js, and Project Reactor modules.
* The APIs were secured by integrating [OAuth 2.0](https://oauth.net/2/) with Spring Security with a full understanding of the RESTful web services produced by Spring Boot Web Dependency and the ability to use Swagger API documentation to define them.
* Have thorough knowledge of JPA provider, Hibernate, and database persistence. Ability to perform mappings, build composite primary keys, generate one-to-one, one-to-many, and many-to-many mappings, as well as create entities.
* Expertise in modern web architecture using various advanced JavaScript frameworks and libraries like Angular.js, Node.js, React.js/Redux, React Native, Bootstrap, Ember.js, Responsive web design (RWD).
* Working experience on ES5, ES6, ES7 and Typescript features for handling asynchronous data requests.
* Expertise using React Components, Reducers, and Actions to implement MVC and Redux architecture and having experience with middleware.
* Very good knowledge of metrics collecting, database monitoring utilizing Actuator endpoints in Spring Boot, and Spring Boot application monitoring. Application data is always made available when employing metrics endpoints connected to a [Grafana](https://grafana.com/) dashboard using Spring boot Micrometer.io.
* Validations have been applied to API request payloads received in accordance with [JSR 303](https://beanvalidation.org/1.0/spec/). Several validators, including NotBlank, Future, Required, MinLength, and MaxLength, have been employed.
* For all current controllers, services, and domain classes - test driven development (TDD) was implemented. Unit test plans, Grails Spock Test cases, and Grails Pagination were used to display data using Grails Templates and Views.
* Highly experienced in installing JPA in conjunction with the Hibernate persistence layer and creating data models using Plain Old Java Objects (POJOs).
* Engaged with the creation of batch operations using Apache Camel and Akka.
* Learn about using Spring Boot to build RESTful services, which involves using Rest Controllers, managing status codes, handling various HTTP methods, and guaranteeing the security of these APIs. Additionally, these APIs have been successfully connected with well-known API gateways like APIGEE and Spring Cloud Gateway.
* Able to use technologies like New Relic, Prometheus & Grafana, Splunk, and AWS CloudWatch to create dashboards, analytics, and alarms with ease.
* Adequate familiarity with DevOps tools like Jenkins, Gradle, Docker, and Kubernetes for the dependable assemblage and structuring of microservices. exposure to DevOps practices, such as automating CI/CD pipelines using GIT and AWS toolkits.
* Expertise in client scripting language and server-side scripting languages like JavaScript, jQuery, JSON, AngularJS, Node.js, ActionScript, JSF and JSP. Experience in designing Rich Internet Applications (RIA's) with jQuery and AJAX.
* Hands on expertise in developing the Single Page Applications (SPAs) using React.js and Model View Controller (MVC) frameworks such as Angular.js.
* Have technical proficiency with Amazon Web Services (AWS) components like IAM, MFA, EC2, S3, Route 53, DynamoDB, RDS, and Lambda.
* Implementation of third-party React utilities like React Router, Redux Sagas, Redux Thunk, and Axios JS successfully.
* Angular routes were developed using router modules for components at the module level to provide lazy loading for modules and components. Furthermore, this enables JavaScript components to load asynchronously in response to the activation of a particular route.
* Expertise in developing front-end technologies for professionals, such as HTML5, CSS3, JavaScript, jQuery Ajax, JSON, and Bootstrap, to create user interface web apps.
* My area of strengths in 12 factor App development principles include different repositories for each microservice, independent database strategies for each microservice, streaming of the logs as events, etc.
* Connect with the Hashicorp Vault service for Spring Cloud Sleuth, which distributed tracing over Microservices to extract the secrets, etc., to work.
* Constructing a Flyway for database schema management utilizing relational databases like Oracle and Postgres.
* Experience with NoSQL DB’s like [MongoDB](https://www.mongodb.com/), DynamoDB, Cassandra, Redis, and ElasticSearch.
* Have practical knowledge of setting up logstash as an information pipeline for Elasticsearch.
* Extensive experience in testing applications using JUnit, Mockito, Jmeter, and Selenium Web Driver.

TECHNICAL SKILLS:

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| **Frameworks** | Spring Boot, Spring Data JPA, Spring Cloud, Spring WebFlux, Spring Security, Spring Kafka, Spring Batch and ExpressJS with Node.js |
| **Programming Languages** | Java, and Java Script |
| **Web Technologies/J2EE** | JSP, Servlets, EJB, jQuery, JSTL, AJAX, XML, JavaScript, AngularJS, ReactJs,  HTML5, CSS3, , CANVAS, TILES, DOJO, JSON, XSLT, XML, JNDI. |
| **API’s** | RESTful web services, SOAP web Services, Graph QL and Web Socket |
| **Monitoring tools** | Prometheus, [Grafana](https://grafana.com/), Alert Manager and Spring [Micrometer](https://micrometer.io/) |
| **Messaging Platforms** | Kafka, RabbitMQ and IBM MQ |
| **Integration systems** | Apache Camel, Spring Batch, and Spring Integration |
| **Relational Databases** | Aurora with PostgreSQL and Oracle with Flyway |
| **No SQL Databases** | MongoDB, Cassandra, AWS DynamoDB, Elastic Search & Redis |
| **Cloud** | AWS (EC2, SQS, SNS, RDS, Cloud Watch, Route 53, Lambda, IAM, ECS, CDN, and CloudFront), PCF/CF (Cloud Foundry) |
| **Containers** | Docker and Kubernetes |
| **Testing Tools** | JUnit 5, Mockito, Rest Assured, Jmeter, Selenium Web Driver and Spring Boot Integration Testing |

**PROFESSIONAL EXPERIENCE:**

**Client: Humana – Indianapolis, IA July 2021 to Present**

**Role: Sr. Full Stack Developer**

**Project Description:** The project is all about finding the doctor's opinion by category. We have a UI to search by category and the results will be shown with the time slots.

**Responsibilities:**

* Designed and developed Spring and REST based Microservices using the Spring Boot also developed RESTful web services using Spring Boot and Microservices Architecture.
* Organized a meeting with the team members to create a template for the code review standards and update it in Confluence.
* Implemented AWS solutions using EC2, S3, RDS, EBS, Elastic Load Balancer, and Auto scaling groups.
* Accessed AWS services like Simple Storage Service, Simple Queue, and Simple DB by working with Java libraries.
* Sequence diagrams were generated using Scrum meetings and the Agile approach.
* Implemented RESTful APIs with method-level granularity and persistence using Spring Boot, Spring AOP, and Spring Actuator.
* Authenticate at the API gateway level and authorized at the microservice level using secured and PreAuthorize Annotations. The API was secured using a [JWT](https://jwt.io/) token and [OAuth 2.0](https://oauth.net/2/).
* Designing and configuring Spring Batch jobs to perform specific data processing tasks.
* Implemented custom item readers, processors, and writers to handle specific data processing logic.
* Benefited from libraries like Apache Commons CSV or OpenCSV to efficiently handle and parse flat files, ensuring accurate data extraction.
* Developed Camel routes using Java DSL and created custom message converters as well.
* Possible to set up the Spring Boot applications so that they can both produce and consume messages using the Kafka Listener.
* Created tailored dashboards using technologies like Grafana or Kibana to visualize throttle-related information, enabling real-time performance monitoring and data-driven decision-making.
* Used Micrometer.io in a Spring Boot application that is operating as a Microservice in a Docker and Kubernetes Container to provide metrics to a Grafana dashboard.
* Utilised web technologies like HTML5, CSS3, and React, front-end apps were created for user-interactive (UI) websites.
* Used Cloud Stack with AWS EC2 to deploy hybrid cloud.
* Experience on AWS Deploying, managing and operating scalable, highly available, and fault tolerant systems and managed continuous delivery systems and methodologies on AWS.
* Experience on practical implementation of cloud-specific AWS technologies including IAM, MFA, Elastic Compute Cloud (EC2), Simple Storage Services (S3), Route 53, Cloud Formation, Elastic Bean Stalk, Virtual Private Cloud (VPC), RDS and Cloud Watch.
* Configured Web Application Context as a Context Listener in the web.xml file to integrate Spring with JSF.
* Developed the webpages using framework Angular 8 along with HTML5, CSS3 and Type Script.
* Designed and reviewed the test scenarios and scripts for given functional requirements and automated test cases in Selenium.
* Extensively worked on the Angular 8 UI Routing to handle navigation to access different pages in the application. Migrated from Angular6 to Angular 8.
* Created Typescript reusable components and services to consume REST API's using Component based architecture provided by Angular 8.
* Used the React Context API, state-based form management, HOC for common cross-cutting issues, and Pure components as well.
* Developed reusable UI components, define accessibility & governance.
* Created forms using Angular-material and used property and event binding to bind data to the form and performed patch update from the form inputs.
* Used React JS to create custom components for data manipulations and to display data in company standard format.
* Worked on server-side web applications using Node.js and involved in Construction of UI using JQuery, ReactJS, Ext JS, Bootstrap and JavaScript.
* Built React application utilizing Redux for state management.
* Used props, states, keys, refs in React.js to build the UI components.
* Used React-router to route the pages on the client-side and built SPA.
* Involved in maintaining the user accounts (IAM), RDS, Route 53 services in AWS Cloud.
* Experience on Cloud Formation template stacks to automate for building new VPC's using JSON files.
* Created Snapshots and Amazon Machine Images.
* Used AWS S3 to store customer's details.
* Apache camel’s AWS component is used to upload documents to S3.
* Used High charts for creating Graphs and charts for payments section also implemented the filtering functionality for the graphs.
* Developed user interface by using the React JS, Flux/Redux for SPA development.
* Wrote maintainable code that complied with the Redux data store integration standards so that React components could access data. Redux Sagas with actions and reducers were made to implement sync API calls.
* Created reusable React components for the application and used props for single directional data flow and used state for Class components.
* Used Mongoose to write CRUD operations for retrieving and updating data.
* Used Postman to test API and used GIT as version control tool.
* Used Pivotal Cloud Foundry, the connection/service binding details are injected from the deployed cloud platform itself.
* Participated in Agile & TDD methodology for application development & used JIRA as project management tool.
* Used React, JavaScript, JQuery to create Controllers to handle events triggered by clients and send request to server
* Used Jest and Enzyme to run tests and make assertions.
* Carried out routine administrative tasks like installing MongoDB, assessing its performance, and identifying performance problems.
* By using Node.js, a user provision script was created that creates users in LDAP and the database as well as downloading files from the SFTP server.
* Worked on issues with Fortify, Blackduck, and Checkstyle. able to upgrade spring boot versions to correct the recently discovered tomcat, log4j, and spring vulnerabilities.

**Environment:** Java, Spring Boot, Spring Angular, React, AOP, Spring Data JPA, Spring Security, Restful web Services, Kafka, Docker, Kubernetes, AWS, MongoDB, Microservices, and React.

**Client: Bank of America – Bay Area, CA Mar 2019 to June 2021**

**Role: Full Stack Java Developer**

**Project Description:** Worked on CLEAR (Client Electronic Access and Reporting), an application that supports file transmissions over various protocols including Connect Direct, AS2, SFTP, FTP, MQ, Mailbox Add, etc. from the Bank to various Trading Partners. The files undergo various masking using cryptographic standards like PGP encryption, decryption, and Swift 3skey signature validations. The Trading Partners have SLAs (Service Layer Agreements) which will ensure delivery in the agreed time frame.

**Responsibilities:**

* Involved in the development of restful web services following industry standards for HTTP protocols, status codes, and naming.
* Enhanced the application's performance and warned the team in advance of any technical issues. investigated application containerization to enable Docker integration.
* Actively engaged in pre- and post-deployment efforts, as well as post-implementation verification (PIV) coordination with business stakeholders.
* Able to use Resilience4J to create the circuit breaker layout. Set the API calls' retries, exceptions, and timeouts.
* Used Spring Boot, Spring Security to build Microservices and deployed to AWS cloud.
* Used Spring Cloud AWS Core, Spring Cloud AWS Context, and Spring Cloud AWS Messaging.
* Used maven to build the project into WAR and EAR files and SVN Version Controlling
* Developed powerful Single Page Application and dynamic responsive Web Application with Angular 8.
* Worked with NPM commands and using Package.json for managing dependencies and dev-dependencies of Node.js applications.
* Selecting the appropriate AWS service based on compute, data, or security requirements.
* Integration of Amazon Web Services( AWS) with other applications infrastructure.
* Developed Microservice based application using Spring Boot as back-end, Angular as front-end and Cassandra DB.
* Used HTML/HTML5, CSS3, JavaScript, JSP, JQUERY, Angular4 and Bootstrap in front end.
* Developed code to call the web service/APIs to fetch the data and populate on the UI using jQuery/AJAX and Vue.js/AJAX.
* Created Typescript reusable components services to consume RESTful API's using Component based architecture provided by React.
* Declared a Customizer bean that receives a Reactive Resilience 4J Circuit Breaker Factory enabled the Resilience 4J circuit breaker.
* Developed the single page application using the React JS which utilizes the classes, and modules feature from JavaScript ES6.
* Used React-Router to turn application into single page application.
* In a production environment, I managed the application and monitored using Spring Boot Actuator endpoints.
* Implemented an SPA (Single Page Application) using Angular modules, services, templates, directives, and dependency injection, and adding new Angular features to it.
* Extensively used Angular Material modules for all UI form fields.
* Implemented Reactive Forms and form validations.
* Have written Jasmine unit tests using Karma to verify Angular modules and JavaScript utility routines.
* Used the Spring cloud sleuth to follow the request as it passed through the microservices. And simply by adding the dependency, this feature was present in the capabilities.
* Spring cloud-config was used to externalize the configuration of the application. Utilizing the bootstrap.yml file, an application built using Spring boot is integrated. The configuration information has been stored in Git and integrated with the application. used the Refreshscope annotation to ensure that the runtime reflection of the changes.
* Setting up listener configurations, work parameters, and error-handling procedures.
* Used the Agile (Scrum) development methodology and took part in sprint planning and retrospectives, ensuring that high-quality work was completed in each monthly iteration.
* Engaged in the creation of RESTful web services and used Swagger documentation to expose them. The authorization code grant type and the client credentials grant type of OAuth 2.0 are used to safeguard these APIs.
* Implemented an SPA (Single Page Application) using Angular modules, services, templates, directives, and dependency injection, and adding new Angular features to it.
* Extensively used Angular Material modules for all UI form fields.
* Implemented Reactive Forms and form validations.
* Have written Jasmine unit tests using Karma to verify Angular modules and JavaScript utility routines.
* Evaluated performance, and the CORS (Cross-Origin Resources Sharing) filter was developed to give the programme CORS capabilities. Utilising Postman, examine the RESTful API's HTTP requests and responses.
* Working Knowledge in React JS framework to develop the SPA and working with React Mono, Flux, Operators, and Async Annotation architecture.
* Built applications using React JS with ES6 which allowed us to render pages on both the client and server using the same codebase and developed web and mobile applications using ES6 features and frameworks such as React and Redux.
* Experience in React.js for creating interactive UI using One-way data flow, Virtual DOM, JSX, and React Native concepts.
* Planned and executed versatile and issue open minded applications utilizing AWS administrations like EC2, S3, RDS, and Lambda.
* Developed RESTful APIs using Java and AWS API Gateway for microservices architecture.
* Configured and deployed applications on AWS Elastic Beanstalk.
* Platform monitoring and auto-healing were worked on in addition to installing and configuring Prometheus, Grafana Stack, and Alert Manager.
* Built the project's jenkins CI/CD pipeline and completed integrations with SCM, Sonarqube, Artificatory, security scans, and enforced code quality gates, among other things.
* Designed, built and deployed application using the AWS stack (Including EC2, Mongo DB, Docker, Kubernetes Orchestration container (EKS)) focusing on high-availability, fault tolerance and auto-scaling.
* Implemented cloud automation using AWS Cloud Formation Templates, Chef and Puppet.
* Used Pivotal Cloud Foundry, the connection/service binding details are injected from the deployed cloud platform itself. Used AWS deployment services to quickly set up a dynamic website and configured virtual servers.
* Written unit test cases with TDD approach using Junit and Mockito.
* Implemented the function to send and receive AMQP messages on RabbitMQ. Created Exchanges, Queues, dead letter queues, etc.
* Used RabbitMQ message broker to route messages to the clients across the cloud network.

**Environment:** Java, Spring Boot, Spring Cloud, Spring Data JPA, Spring Batch, RESTful web Services, Angular, React, RabbitMQ, Microservices, Docker, Kubernetes, AWS, MongoDB, and Angular.

**Client: Walgreens, Deerfield, IL Nov 2017 to Feb 2019**

**Role: Senior Java Developer**

**Responsibilities:**

* Created user-friendly GUI interface and Web pages using HTML, CSS JavaScript, AngularJS and NodeJS.
* Designed and developed a Restful APIs for different modules in the project as per the requirement.
* Worked on Prototyping and Implementation using JavaJDK1.7
* Used Angular, Bootstrap for rich user interface and faster performance and Angular UI Router for routing pages.
* Used AWS Beanstalk for deploying and scaling web applications and services developed with Java 8, PHP, Node.js, Python on familiar servers such as Apache camel.
* Used AWS DynamoDB for NoSQL database management.
* Used Spring Boot, which is radically faster in building cloud Microservices and develop Spring based application with very less configuration.
* Developed React JS pages, Web services calls, and AJAX calls for the application.
* Operated in an Agile development environment while collaborating with my project manager and team leads in pre-deployment and post-deployment activities to understand the business requirements and features that need to be created, updated, or renewed.
* Involved in Scrum meetings with the team members on a day-to-day basis for updates on project status.
* Resolved technical issues for designers and developers during the project lifecycle.
* Contributed to the Design and develop high-quality software for large-scale Java/Spring Batch/Microservice Applications.
* Analyzed business requirements and created technical design documents that are in accordance with the company's architecture standards.
* Analyzed the Angular.js server structure in the legacy project, then mimicked the RESTful service by using Java JAX-WS API and did the corresponding configurations.
* Worked with AngularJS routers, forms, modules, DOM, expressions, controllers, filters, and HTTP requests.
* Developed dynamic interfaces using Angular.js framework based on the user requirements providing structure and consistency throughout the application.
* Angular.js was used for binding information between elements of the pages and for routing of the Web pages.
* Developed Microservice with Spring boot to retrieve API routes for the entire cluster. Using this strategy each Microservice in a cluster can be load-balanced and exposed through one API gateway.
* Designed and implemented Spark cluster to analyze data in Cassandra.
* Implemented automated local user provisioning instances created in AWS cloud.
* Used AWS CloudFormation to automate infrastructure deployment and management.
* Executed verification and approval utilizing AWS Cognito and IAM.
* Coordinated AWS SNS and SQS for occasion driven design.
* Used AWS CloudWatch for observing and logging of utilizations.
* Executed information handling pipelines utilizing AWS Kinesis and Lambda.
* Carried out reserving utilizing AWS ElastiCache.
* Analyzed the Cassandra/SQL scripts and designed the solution to implement using Scala.
* Developed Web Services (SOAP) using Spring-WS to handle user requests and interact with other components.
* Configured serializers, deserializers, and various other aspects involved in setting up Kafka topics. Skilled in harnessing the schema registry, forming consumer groups, managing manual acknowledgments, handling partitions, addressing exceptions, and more.
* Configured the Spring Boot applications to send messages to Kafka topic as a producer and able to consume using Kafka Lister as well.
* Worked on the Blackduck concerns broadly and was prepared to provide relief through a variety of methods, such as upgrades and other measures.
* Fixed other Outstanding issues related to the mod and completed the critical packaging.
* Used Log4J to capture the log that includes runtime exceptions.
* Created unit test cases for the Backend using Junit and Mockito. We are using the Jacoco plugin to test the coverage and integrate with the SonarQube to enable the quality gate for the code coverage.
* Experience in using JUnit and build tools such as Maven. Worked on Log4j for logging errors, messages, and performance logs and GIT for version control.
* Developed unit testing framework using JUnit test cases for continuous integration testing.
* Working on Continuous Integration (Jenkins) to configure the project jobs to build on a daily/weekly basis.

**Environment:** Java, Spring Boot, Spring, AngularJS, JPA with Hibernate, Cassandra, AWS, Kafka, Maven, JUnit, Mockito, Jira, Oracle and Angular, React

**Client: Mindtree, Bangalore, India May 2013 to Oct 2017**

**Role: Software Engineer**

**Responsibilities:**

* Actively involved in upgrading myself in the application architecture and development tools for web solutions that fulfill the business requirements of the project.
* Involved in the development of presentation modules. The application is based on the MVC Architecture using the Spring framework.
* Developed and implemented the MVC Architectural Pattern using Spring Framework and used Spring IOC container to maintain core Objects Lifecycle.
* Build the web applications using Spring MVC and able to use ModelAndView for sending the data.
* Used Multithreading to improve the performance for processing of data feeds.
* Implemented client-side validations using JavaScript and server-side validation in the Action classes.
* Developed Web pages using JavaScript, to create the user interface views.
* Employed JPA with Hibernate to store the persistent data as an Object-Relational Mapping (ORM) tool for communicating with the database.
* Developed Stored Procedures, triggered stored procedures using Hibernate.
* Created and modified database objects i.e Tables, Indexes, Views, Synonyms, Database Links, Materialized Views, and Partitioned Tables.
* Implemented Spring Security for user authentication, limit login attempts, and password hashing.
* Developed Web Services (SOAP) using Spring-WS to handle user requests and interact with other components.
* Participated in application deployment and monitoring as well.
* Used GIT for version control, experience with Git-bash and TortoiseGit.
* Interacted with Business Analysts and Business owners to give up the best designing features for the product users.

**Environment**: Java, jQuery, Spring MVC, GitLab, Jenkins, Webpack, Maven, Oracle, Postman, Junit, TestNG, Unix.