**KARTHIK SB**

Full Stack Java Developer 🗉 (469) 545-1384 🗉karthik.sb139@gmail.com

**Professional Summary**

* With over 8+ years of Full Stack development and proficient in programming languages such as **Java, JavaScript, PL/SQL**, and **UNIX Shell Script** and worked with end to end **Software Development Life Cycle** (SDLC).
* Deep understanding of Java/J2EE Technologies such as **Servlets, Spring, JPA, JTA, JDBC, JSP**, **JSTL, RMI,** and **Applets,** enabling the creation of robust and scalable applications.
* Reactextensively worked on both Functional Components along with **React Hooks** like **useState, useEffect, useMemo, useRef** and Class Components with react lifecycle with **props and State** and also worked on **React's virtual DOM** and its efficient rendering mechanisms, which contribute to enhanced performance.
* Extensive experience with managing component lifecycles in both **Angular and React**, ensuring efficient resource allocation & implementing handling state management, asynchronous operations, and data flow within these frameworks, utilizing libraries like **Redux** and **RxJS** when necessary.
* Developer with extensive hands on experience on the Cisco UCCE, and cisco PCCE contact centers, Relevant experience in full life cycle development including development,deployment, testing, documentation, implementation, maintenance and support of application software in web-based enviroments and client/server architecture using JAVA/J2EE.
* Experience writing apps from scratch Kotlin
* Extensive experience with frameworks like **Struts 2.5, Hibernate 5.x, Spring 5.0, Spring Batch**, **Spring Security, Spring AOP, Spring Core, Spring IOC, and JSF,** showcasing my versatility as a Full Stack Developer.
* Strong familiarity with web technologies like **HTML, CSS/CSS3, AJAX, JQuery,** **Bootstrap, XML, Grunt, Gulp,** and **JSON** essential for front-end development. Demonstrated ability to use **JSON** for storing and transporting data between server and client in a human-readable format.
* Experience on Nuance IVR (NDF IVR -Inbound/Outbound) on Cisco Voice platform(CVP)
* Extensive experience in building robust and scalable applications using kotlin.
* Proficient in managing databases such as **SQL Server, MySQL, Oracle, MongoDB, and DB2**, allowing for efficient data management and processing.
* Experience in working with **JavaScript Frameworks** such as **AngularJS, Angular 13**, **JQuery**, **React.js, Node.js, Backbone.js, Hapi.js** and **Handlebars.js**, providing diverse options for client-side scripting.
* Implemented the **NgRx** store in an Angular context, utilizing the Redux pattern to establish a client-side single source of truth for state management. Leveraged **NgRx** Actions for events and **Reducers** to handle state changes, resulting in a predictable, and consistent state management approach with a clear and traceable unidirectional data flow.
* Utilized **React-Redux's** connect function to connect the **Redux store** with **React** components and **Redux** Middleware (like redux-thunk) for handling asynchronous actions and side effects, allowing the components to dispatch actions and subscribe to store updates.
* Solid experience developing the rendering view **React JS** components, forms, events, **routers**, and **Redux asynchronous** functions and implemented **React - Flux** pattern for core dependency.
* Worked on creating monitoring dashboards on **Splunk, Kibana** and **AWS CloudWatch** for monitoring, troubleshooting & generating alerts. Also experience configuring, customizing, and maintaining **Splunk** for real-time visibility, dashboards, reports, and alerts, ensuring effective analysis and incident response. Skilled in leveraging **Splunk's search language** (SPL) and **data parsing** techniques to extract valuable insights from machine-generated logs.
* Hands-on experience working with **AWS CloudWatch** and triggered **Events** with **AWS** **Lambda** for automating response actions and streamlining incident management processes. And some experience using monitoring tools like **Nagios, New Relic, Datadog** across different projects.
* Extensive experience in building microservices architecture using **Spring Boot and Spring Cloud**.
* Developed **Spring Boot**-based Microservices to break the monolith application into smaller, loosely coupled, and scalable services. Each service was designed to fulfill a specific business capability, which allowed for independent development and deployment cycles.
* Utilized **Spring Cloud's Ribbon and Feign** as a client-side load balancer and declarative **REST** client respectively, to communicate between microservices, thereby enhancing load distribution and facilitating resilient communication.
* Proficient in container orchestration and management utilizing **Kubernetes, OpenShift, and PCF**. Skilled in deploying and scaling containerized applications, leveraging features such as deployments, services, operators, and persistent volumes. Experienced in implementing **CI/CD** workflows and utilizing **Kubernetes**-native tools for package management and service mesh.
* Expertise in leveraging **OpenShift**, enterprise **Kubernetes**, for building and deploying applications in a containerized environment. Well-versed in utilizing Red Hat **OpenShift** features for continuous integration and deployment, enabling streamlined application delivery workflows. Familiarity with **Pivotal Cloud Foundry (PCF)** for deploying and managing applications across multiple cloud environments**.**
* Experienced in implementing and managing **Kubernetes clusters**, ensuring efficient container orchestration, networking, and security using **Kubernetes**.
* Implemented **Spring Cloud Gateway** for routing, rate limiting, and security concerns at the edge of our microservice ecosystem, providing a well-defined point of entry into the system.
* Knowledgeable in web services like **XSD, WSDL, Apache Axis, SOAP, Restful, GraphQL**, **JAX RS, and JAX WS**, facilitating seamless connectivity between applications.
* Employed **SOAP's WS-Security,** which provides a suite of specifications to address security while implementing web services, providing a robust mechanism for message-level security in the applications.
* Utilized **HTTP** methods (GET, POST, PUT, DELETE) in **REST APIs**, providing a clear and standardized approach to perform operations on resources.
* Used **Swagger UI**, a built-in, browser-renderable, interactive documentation system, enabling users to try out APIs directly from the documentation.
* Hands-on experience with messaging systems like **JMS** (Java Message Service), **IBM MQ, Apache** **Active MQ**, and **Apache Kafka**, facilitating real-time communication in distributed systems.
* Incorporated **Apache Kafka** as a distributed messaging system in the application to handle real-time data feeds with low latency. Kafka's pub-sub model allowed us to decouple data pipelines and ensured high throughput, which was essential in our microservices architecture.
* Utilized **Kafka Streams API** for building lightweight stream processing applications, allowing the transformation of input Kafka topics into output Kafka topics. This helped us in real-time data transformation and processing.
* Proficient in managing Web Application Servers including **Oracle WebLogic 10.x/9.x, IBM** **WebSphere 8.x/6.x, and Apache Tomcat 8.0/7.x/6.x.**
* Well-versed in methodologies such as **Agile, Waterfall and SCRUM**, allowing for a flexible approach to project management.
* Extensive experience with testing tools like **JUnit, Mockito, Jasmine, Karma, Mocha, Chai**, and **Selenium**, ensuring the reliability and performance of software.
* Incorporated Test-Driven Development (**TDD**) with **JUnit and Mockito**, and Behavior Driven Development (**BDD**) using **Cucumber**, to ensure code quality and alignment with business needs. These methodologies enhanced collaboration and understanding across both technical and non-technical team members.
* Worked with version controls like **GIT, GitLab, SourceTree, SVN, CVS** and worked with build tools like **Maven, Gradle and ANT**.
* Adept at using IDEs such as **Eclipse IDE, RAD 6.0/7.0, IntelliJ IDEA, and Spring Tool Suite (STS**), improving coding efficiency and productivity.
* Proficient in using **GraphQL** for building flexible, efficient APIs.
* Solid experience on working with **Angular.JS, React.JS, Backbone.JS** in **MVC patterns** and **Angular, component architecture** in **MVVM** design patterns, which is crucial for structured and efficient software development.
* Demonstrable knowledge of **Hibernate ORM** for handling database operations efficiently.

**TECHNICAL SKILLS**

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| **Java/ J2EE** | Core Java, J2EE, Web Services (REST), Servlets, JSP, JDBC, JavaScript, jQuery, JSON, Angular 2/4/8, React.js |
| **Frameworks** | Spring, Spring boot, Struts, Hibernate, TopLink |
| **Programming languages** | C, Java, Shell scripting, SQL, PL/SQL |
| **Database** | MySQL, Oracle, MongoDB, Cassandra |
| **Operating Systems** | Windows, Unix/Linux, Mac OS |
| **IDE/Editors** | IntelliJ, Visual Studio, Eclipse, Atom, WebStorm. |
| **Testing Frameworks** | Junit, Selenium, Cucumber, Jest, Mocha, Chai |
| **Version control** | GIT, SVN, CVS |
| **Built tools** | Maven, Gradle, Ant, Gulp, Webpack |
| **ORM** | Hibernate, Spring Data, JPA, Mybatis |
| **Web Servers** | Web sphere, Web logic, Apache Tomcat, JBoss |
| **Web Services** | SOAP – WSDL, JAX-WS, RESTful – JAX-RS, Microservices |
| **Methodologies** | Agile, Scrum, Waterfall Model |
| **Project Management Tools** | GitHub, Bitbucket, Confluence, JIRA, Rally |
| **CI/CD Tools** | Jenkins, Bamboo |
| **IDE & Build Tools** | Eclipse, IntelliJ, NetBeans, Toad, SQL Navigator, DBeaver |
| **Cloud Environments** | AWS, Azure, Pivotal Cloud Foundry (PCF) |
| **Testing Tools** | Junit, Jasmine, TestNG, Mockito, Protractor, Selenium, Cucumber, Karma |
| **Monitoring** | AWS CloudWatch, Kibana, Splunk, AppDynamics, Datadog, Sumo Logic, New Relic, ELK Elastic Search, LogData |
| **Orchestration** | AWS EKS, Kubernetes, OpenShift, PCF |
| **Security** | JWT, Ping Federate, AWS Cognito, OAuth 2.0 |

**PROFESSIONAL WORK EXPERIENCE**

**Client:** Visa  **Aug 2022 - Present**

**Location:** Austin, Texas

**Role:** Java Full stack developer

**Responsibilities:**

* Developed a robust and secure flight reservation system, utilizing **Java, Spring Boot,** and **React**, enabling passengers to efficiently book and manage their flights.
* Implemented **Spring JPA** and **Hibernate** for object-relational mapping, facilitating efficient interaction with **Oracle** databases containing critical flight and passenger data.
* Designed User interface using CISCO CVP call flow designer
* Developed the UI using **React** with **JSX** for component rendering and utilized **Redux** for managing state across the application.
* Leveraged **Axios and jQuery** for handling **HTTP requests** to the server and implemented client-side validations with **React.**
* Configured **React-Redux** for state management and **React-Router** for programmatic navigation.
* Created dynamic and interactive user interfaces with **kotlin**-based front-end frameworks such as **Kotr**
* Designed and developed IVR application in CISCO CVP platform
* Implemented **Store-Redux** for holding the whole state tree of application and Reducer-Redux for describing actions.
* Employed **Jest, Mocha, and Chai** for unit testing and utilized Webpack for application bundling.
* Designed and developed IVR application in CISCO CVP platform
* Integrated **MongoDB** to handle unstructured data, such as passenger feedback and logs, to increase system flexibility and scalability.
* Employed **Kotlin**, **Angular**, and **Node JS** to create a real-time chat application to enable seamless communication.
* Developed **RESTful APIs** using **Spring Boot**, facilitating efficient data exchange between front-end portals and back-end flight management systems.
* Leveraged **Spring Cloud tools** to orchestrate **microservices** in a distributed and fault-tolerant system, utilizing service discovery **(Netflix Eureka)**, **Circuit Breaker** **(Netflix Hystrix)**, and **Config Server** to streamline configurations.
* Applied **Spring Cloud Gateway** as the project's API Gateway, routing requests, securing APIs, and applying rate limiting rules, significantly improving traffic management and ensuring reliable request processing.
* Developed Enterprise Level IVR application VXML
* Implemented **WebSockets** to enable real-time communication between the customer portal and the server, enhancing responsiveness and interactivity of notifications and alerts within the application.
* Creation of micro services using **AWS** lambda functions with **Kotlin** and exposes those services through **AWS Gateway API**. **Design** and implemented the backend layer using Hibernate.
* Utilized **Apache Kafka** for handling real-time data feeds, ensuring efficient and scalable processing of vital flight metrics in the system.
* Deployed and managed applications on **Apache Tomcat servers**, optimizing performance tuning and troubleshooting for smooth operations.
* Performed unit testing using **JUnit and Mockito**, ensuring the reliability and robustness of applications.
* Implemented **GIT** for version control, **Maven** for streamlined project building and dependency management, **Shell scripts** for task automation and system management in a Linux environment, and utilized Microsoft Office for effective project documentation, presentation, and communication in internal and client meetings.
* Created and maintained **PL/SQL** stored procedures and functions, optimizing system performance and data retrieval in Oracle databases.
* Developed **RESTful web services** for data exchange with external systems, facilitating seamless integration with airline partners and other service providers.
* Implemented **Spring Security** for authentication and authorization, ensuring robust system security.
* Utilized **Spring AOP** for implementing cross-cutting concerns such as logging and transaction management, enhancing code modularity and maintainability.
* Developed **microservices** using **Spring Boot**, enabling modular and scalable architecture.
* Implemented **CI/CD** practices using **Jenkins**, automating build, testing, and deployment processes to accelerate project delivery and ensure high-quality software.
* Deployed applications and services on **AWS EC2** instances, leveraging cloud infrastructure for improved system availability and scalability.
* Created **Docker** containers for deploying applications, ensuring consistency, portability, and isolated environments.
* Utilized **Redux** for managing application state in web applications, improving code predictability, maintainability, and debuggability.
* Used **GraphQL** to create flexible and efficient APIs, optimizing data utilization and performance within services.
* Implemented responsive design using **CSS3 and Bootstrap**, enhancing user experience on different devices for web applications.
* Implemented **JSON** for efficient data exchange between the client and the server, ensuring seamless parsing and serialization, and incorporated robust error handling and data validation to maintain data integrity and enhance system stability within web applications.

**Environment:** Java, Spring Boot, Angular 8, Spring JPA, Hibernate, MongoDB, MySQL, Oracle, HTML5, CSS3, IVR,VXML, Nuance TTS, Bootstrap, AngularJS, React.js, Node.js, Express.js, WebSockets, Apache Kafka, Oracle WebLogic, Apache Tomcat, Agile, SCRUM, JUnit, Mockito, GIT, Maven, Linux, Shell scripts, Microsoft Office, PL/SQL, SOAP, RESTful, Spring Security, Spring AOP, Microservices, Jenkins, AWS EC2, Docker, Apache Active MQ, Redux, GraphQL, JSON, CSS3, Bootstrap.

**Client:** Citi Bank **Aug 2021 – July 2022**

**Location:** Irving, Texas

**Role:** Java Full Stack Developer

**Responsibilities:**

* Led the development of a microservices-based application using **MEAN** stack **Angular 12, Node-Express and Spring Boot** for Rest APIS and Mongo for transactional data.
* Expertise in using **Angular** **directives(ngModel, ngIf, ngFor, ngSwitch)** and used **Reactive Templates** using **Material-UI** and **Template driven forms**, Angular **Route Guards(CanActivate, CanActivateChild**)
* Extensively worked with created **child modules** along with **route modules** to **lazy load** them and also integrated with **angular route guards** and also focused on using directives for **grid, pagination, conditional validations, lazy loading, Shadow DOM, ngrx store**.
* Utilized **RESTful web services** using **Spring Boot**, integrated **Swagger API** for comprehensive documentation, and ensured secure authentication of RESTful services with **JSON Web Tokens** (JWT).
* Expertise in building server-side applications using kotlin and Node JS.
* Designed and developed IVR application using VXML
* Have knowledge on Kotlin Android Extensions framework
* Incorporated server-side validation using the **Spring Validation framework**, ensuring data accuracy and consistency in the application.
* Implemented **Spring Transaction management** and configured **Spring Hibernate** transaction manager for seamless handling of database transactions, ensuring data integrity and consistency.
* Leveraged **JUnit and Mockito** for unit testing, ensuring the reliability and robustness of the code, and conducted behavioral and integration testing using **Cucumber** and **Selenium** to ensure the stability and reliability of the application.
* Utilized **Spring Batch and Quartz** scheduler for efficient processing of large volumes of records and employed **Spring AMQP's Rabbit Template** for message services and event-driven communication.
* Developed a chat application using Kotlin, Spring Boot and React JS for seamless communication
* Worked with **MongoDB** for database persistence, utilizing **Spring Data** for seamless interaction with the NoSQL database.
* Using Kotlin for implementing new modules in the application
* Created complex **SQL** procedures and queries for **MySQL** database to handle application data loading and perform various data operations.
* Utilized frameworks like springboot with kotlin to streamline application development and enhance code maintainability
* Incorporated **Splunk** for logging, error tracking, exception handling, and business logic analytics, ensuring comprehensive application monitoring and analysis.
* Used the **Gradle build tool** for application deployment on **Apache Tomcat** servers and integrated **Jenkins** for continuous integration and continuous deployment (**CI/CD**), streamlining the development process.
* Employed **Spring Cloud-Netflix OSS Stack**, including **Ribbon** for client-side load balancing, **Netflix Zuul API Gateway** for reverse proxy infrastructure, and **Hystrix Circuit Breaker** for fault tolerance.
* Deployed the **Dockerized Spring Boot** application on **Pivotal Cloud Foundry** (PCF) for development and testing, ensuring scalability and flexibility in the deployment environment.

**Environment:** JavaScript, Angular8, HTML5, CSS3, AJAX, Bootstrap, Spring Security, Spring Data, Spring Batch, Quartz Scheduler, Hibernate, Spring Boot, RESTful services, Spring Cloud-Netflix, Splunk, MongoDB, MySQL, Docker, Apache Tomcat, Jenkins, Netflix Zuul API, JUnit, Mockito, Selenium, Cucumber.

**Client:** Cloudoor **Oct 2019 - July 2021**

**Location:** Lauderdale, Florida

**Role:** Java Full Stack Developer

**Responsibilities:**

* Participated in all stages of SDLC like Requirement Analysis, Design, and Implementation using Agile Methodology.
* Leveraged the new features of **Java 8** such as Lambda expressions, Streams, Optional classes, and default methods for efficient code development.
* Utilized **Spring Boot 5** for developing microservices and managed ORM using **Hibernate.**
* Using Kotlin for implementing new modules in the application
* Implemented **JWT** for secure authentication and **AWS Cognito** for user management.
* Developed **SQL queries** and PL/SQL procedures for MySQL and implemented NoSQL database MongoDB for certain data operations.
* Utilized **JUnit 5 and Mockito** for server-side testing and PowerMock for mocking static methods.
* Implemented a distributed messaging system using **Kafka** for integrating with MongoDB.
* Have knowledge on Kotlin Android Extensions framework
* Utilized AWS services including **AWS EC2, S3, and EKS** for deployment and orchestration of the application.
* Worked with **Kibana, Splunk, and AppDynamics** for application monitoring and leveraged Spring interceptors for intercepting HTTP requests.
* Worked on **Docker** for containerization and Kubernetes for orchestration across EC2 servers.
* Utilized Ansible for automating deployment and management of the application on **AWS EC2** instances.
* Worked with **AWS Lambda** for serverless computing and utilized **AWS S3** for storage of application data.

**Environment:** React.js, Redux, Axios, jQuery, JSX, Jest, Mocha, Chai, Webpack, Java 8, Spring Boot 5, Hibernate, JWT, AWS Cognito, MySQL, MongoDB, JUnit 5, Mockito, PowerMock, Kafka, AWS (EC2, S3, EKS), Kibana, Splunk, AppDynamics, Spring interceptors, Docker, Kubernetes, Ansible.

**Client:** Imaginate **Sep 2017 – Sep 2019**

**Location:** Hyderabad, India

**Role:** Full Stack Java Developer

**Responsibilities:**

* Utilized **React.js** for building responsive UI components and integrated them with backend APIs to render data dynamically on the virtual DOM.
* Developed the application layout and prototype using React.js with the **Redux library, jQuery UI, CSS/LESS, and HTML5**, focusing on a seamless user experience.
* Implemented **Node.js** as a server-side solution to create an efficient, event-driven, non-blocking I/O application model.
* Utilized key features of Java 8, including **Lambda expressions** and **Time APIs**, for effective and modern backend development.
* Developed and implemented the **MVC** design pattern using the Struts 2 framework for front-end development.
* Used Webpack module bundler and Babel Javascript compiler in conjunction with **React.js** for efficient code bundling and transpiling.
* Leveraged Spring Boot for the creation of **CRUD operations** in the backend, seamlessly integrating with the React-based frontend.
* Conducted **unit testing** on the RESTful web application using **JUnit and Mockito** to ensure code quality and functionality.
* Deployed the application in a serverless architecture using **AWS** services including **Lambda and Kinesis,** with deployments managed via AWS CloudFormation.
* Implemented **Docker and Kubernetes** for the containerization and orchestration of the microservices-based application.
* Integrated the internal security model with new projects using **Spring Batch, Spring Microservices,** and **Spring Boot**, along with Pivotal Cloud Foundry and Netflix Eureka.
* Conducted **unit testing** on the **React.js** and **Node.js** applications using **Mocha, Chai, Karma, and Jasmine tools**, and implemented build automation with Gulp.
* Performed integration testing using **Selenium WebDriver and Cucumber** for Behavior Driven Development (BDD) testing.
* Utilized **MongoDB** for NoSQL database operations, using the Mongoose Connector for efficient database interactions.
* Implemented **AWS Cognito** for user management and authentication and OAuth 2.0 for secure API access.
* Monitored application performance using **AWS CloudWatch, Kibana, and Splunk**, and utilized Spring interceptors for capturing HTTP requests.

**Environment:** React.js, Redux, jQuery UI, CSS/LESS, HTML5, Node.js, Java 8, Struts 2, Babel, Webpack, Spring Boot, JUnit, Mockito, AWS Lambda, Kinesis, CloudFormation, Docker, Kubernetes, Spring Batch, Spring Microservices, Pivotal Cloud Foundry, Netflix Eureka, Mocha, Chai, Karma, Jasmine, Gulp, MongoDB, Mongoose Connector, AWS Cognito, OAuth 2.0, AWS CloudWatch, Kibana, Splunk, Spring interceptors.

**Client:** Think More Services Pvt Ltd. **Nov 2015 - Aug 2017**

**Location:** Gurgaon, India

**Role:** Java Full Stack Developer

**Responsibilities:**

* Utilized **React.js** to build highly interactive user interfaces, enhancing customer engagement with the website.
* Implemented **JSX** for component rendering and **Redux** for managing the state of the application in the revamped platform.
* Employed **Bootstrap** alongside **CSS3** to create responsive and appealing web pages and components.
* Utilized **JQuery** for handling events, creating animations, and simplifying HTTP requests.
* Developed **RESTful** web services in **Spring Boot** following Service Oriented Architecture **(SOA)** principles.
* Employed **Spring Boot 5** for developing stand-alone, production-grade applications.
* Used **Junit5 and Mockito** for unit testing the Spring Boot applications, ensuring the code meets quality standards.
* Utilized Hibernate as an **ORM** tool to interact with the SQL database, improving data handling efficiency.
* Integrated **MongoDB** as a NoSQL database solution to manage unstructured data.
* Deployed and managed microservices using **AWS EKS and Kubernetes** for orchestration, improving the scalability of the application.
* Monitored application performance using **AWS CloudWatch, ELK Elastic Search, and Kibana** to ensure optimal performance.
* Implemented security protocols using **JWT and AWS Cognito** to ensure secure data exchange and user authentication.
* Employed **OAuth 2.0** to allow secure API access, improving the security of data exchange.
* Utilized **Gulp** for automating repetitive tasks, thereby increasing developer productivity.
* Conducted functional and integration testing using **Jest, Mocha, and Chai**, to ensure the robustness of the application.
* Used **Webpack** for bundling JavaScript files for usage in a browser, improving load performance.
* Managed the application deployment in Pivotal Cloud Foundry **(PCF)** server and integrated with Git version control using **Jenkins.**
* Worked with **ActiveMQ** for achieving message broker services in the application.

**Environment:** React.js, Redux, JSX, Bootstrap, CSS3, JQuery, Spring Boot 5, Hibernate, MongoDB, JWT, AWS Cognito, OAuth 2.0, AWS EKS, Kubernetes, AWS CloudWatch, ELK ElasticSearch, Kibana, Gulp, Jest, Mocha, Chai, Webpack, ActiveMQ, Pivotal Cloud Foundry (PCF), Git, Jenkins.

**Education:**

Prasad V Potluri Institute of Technology - Bachelors