Kokila Kotha [A hexagon with white text

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PROFESSIONAL SUMMARY

Full Stack Developer with 4+ years of experience in web application development, information system by using both front-end, primarily React, and back-end services using Java and Spring Boot with strong and problem-solving skills and can work well both independently and as a part of team.

* Experienced in Java object-oriented programming languages and have good coding understanding on **OOPs, Collections, Exceptions Handling, Annotations, Concurrency, Multi-Threading, Lambda, Generics, Data structures and algorithms**
* Expertise in Spring Framework **including Spring MVC, Spring Boot, Spring AOP, Spring Security,** and database management using **Spring Data JPA, Hibernate ORM, and Spring JDBC**.
* Strong background in backend **micro services architecture**, implementing scalable and independent services.
* Proficient in high quality system Object-oriented design patterns, particularly **MVC** pattern.
* Skilled in building dynamic single-page applications using HTML5, CSS, **React (JSX, HTML, CSS, Redux, React Router, Hooks, Context API, Babel, WebPack) and AngularJS.**
* Delivered clean, maintainable code and used Swift and Slate for front-end and documentation processes.
* Hands-on experience with Java 8 features and functional programming **Lambda Expressions and Streams**.
* Experienced in implementing security best practices with **Spring Security** and OAuth2 for SSO services.
* Expertise in relational database **MySQL** and NoSQL databases **Mongo db**.
* Hands-on experience in using web servers like **Tomcat** and development tools such as **Eclipse** and **IntelliJ.**
* Proficient in containerization and orchestration using **Docker** and **Kubernetes**.
* Hands on experience with **Amazon Web Services (AWS**), including **EC2, S3, EKC, ECR, IAM, RDS, dynamodb, VPC, CloudFormation Templates, Lambda, and Security groups**.
* Proficient in **Jenkins CI/CD** pipelines for automating build, testing, and deployment processes.
* Experienced in using **Postman** for API testing and documentation.
* Skilled in test development with unit testing (**JUnit**) and integration testing (**Mockito**).
* Proficient in version control using **Git and GitHub**.
* Practiced in **Agile methodologies** (Scrum, Sprint) and familiar with Waterfall and **Test-Driven Development**.
* Leveraged strong communication skills to collaborative in a fast-paced, innovative environment within the finance sector.

TECHNICAL SKILLS

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| **Languages** | C, Java, JavaScript (JS), HTML, CSS, SQL, XML, html5, css3 |
| **Frameworks** | ReactJS, node.js, Angular, Spring (MVC, Core, Data), Spring Boot, JDBC |
| **Data Bases** | MySQL, MongoDB, PostgreSQL |
| **Webservices** | RESTful, Testing- Postman |
| **Cloud Computing/ Devops** | AWS (EC2, S3, EKC, ECR, IAM, RDS, VPC, Lambda, and Security groups), Docker, Kubernetes, Jenkins |
| **Application Server** | Apache Tomcat |
| **Operating System** | Mac OSX, Windows, Linux, Unix |
| **Testing** | JUnit, Mockito, jest |
| **IDE** | IntelliJ, Eclipse, Visual Studio code |
| **Version Control** | Git, GitHub |
| **Messaging queues** | Apache Kafka, RabbitMQ |
| **SDLC Methodologies** | Agile, Test-Driven Development (TDD) |

WORK EXPERIENCE

**Full Stack Developer January 2024 - Present**

*American Airlines, Remote Kansas City, Mo*

**Responsibilities:**

* Designed and developed dynamic front-end user interface using **HTM, CSS, JavaScript, React JS**.
* Created prototypes with component-based rendering in react using **Webpack** bundler to manage dependencies and **Babel** as transpiler from JSX to ES6.
* Developed dynamic routing for single page applications using **React Router**, **and states** by implementing **Redux** for application **state management**.
* Migrated class components to functional components using **React Hooks, props** for better user experience.
* Created dynamic forms for the application using **React Hook Forms** for efficient form handling and validation, incorporating conditional rendering and **useRef()** for enhanced functionality.
* Utilized **useState** and **useEffect** hooks for managing state and side effects, and **useMemo, useCallback** for optimizing performance in functional components.
* Worked extensively with **React Virtual DOM** and component lifecycle phases including **Mounting, Updating and Unmounting** for class components**.**
* Integrated frontend code using **Axios** for making authenticated API calls to fetch data from RESTful APIs.
* Developed the backend server with **SpringBoot** by involving different layers of the application including **Entity-Model, Repository, Controller, Service** with a focus on business logic and data persistence.
* Implemented **Microservices** architecture with Spring boot and used **webClient** for asynchronous communication between microservices.
* **Configured API Gateway** to manage and secure API endpoints.
* Employed **DTO design pattern** to perform data transfer between service and presentation layer.
* Worked with **Java8** features like **Stream API**, **Lambda expressions**, **Functional interfaces, Date/Time changes** and **Method references.**
* Designed and implemented **MySQL** database, by utilizing **Hibernate ORM** and @Annotations for efficient object-relational mapping (**ORM**) to synchronize **POJO**s with the database schema.
* Utilized Spring Data Mongo for managing **MongoDB** logs.
* Developed a global exception handler to handle exceptions raised by the application and handled security using **Spring Security** with **OAuth2** for secure authentication and authorization**.**
* Developed unit tests for Spring Boot services and controllers using **JUnit and Mockito**.
* Developed and maintained comprehensive unit tests for React components using **Jest test suite**.
* Experience with containerization using **Docker** images and **Kubernetes** clusters for deployment in AWS.
* **Utilized AWS cloud services** including **EC2, S3, RDS, ECR, ECS and IAM** for infrastructure provisioning, database management, container registry, and access control.
* Deployed applications into **Jenkins CI/CD** pipelines for continuous integration and continuous deployment
* Used **GitHub** to maintain the version, code merges and created new branches for implementing new features.
* Involved in software development life cycle and participated in **agile software development** Scrum meetings
* Communicated with cross-functional teams including Product Managers, ui/ux designers, stakeholders and quality assurance engineers

**Environment**: Java, Java8, J2EE, Spring Framework, Spring Boot, Micro Services, Spring Data JPA, Hibernate ORM, Spring MVC, HTML, CSS, Java Script, jQuery, REST Web Services, MySQL, MongoDB, Docker, Kubernetes, Maven, JUnit, Jenkins, JIRA, Git, AWS

**Senior Software Engineer October 2020 – December 2022**

*Royal Bank of Canada Hyderabad, India*

**Responsibilities:**

* Worked in credit cards team at the Royal Bank of Canada, developing a reward credit card application system.
* Developed a responsive frontend responsive design interface using HTML5**, CSS, bootstrap, TypeScript, and Angular 9**, employing a model-driven approach through component and module creation, with code reuse.
* Implemented interpolation and routing to navigate between the components using **Angular Router Module**.
* Used **@Input** and **@Output** to transfer the data between Parent and Child components along with the dependency injection.
* Integrated **ngModel** to achieve two-way data binding, used structured directives, event binding, router outlet, and custom pipes for filtering and sorting.
* Implemented **HttpClientModule** to handle HTTP requests in AngularJS
* Developed backend on Spring framework utilizing **Beans, Dependency injection, Spring MVC, Hibernate ORM, Data JPA and Spring Boot**.
* Utilized **Hibernate ORM** to map Java objects to database tables by creating POJOs and using **Hibernate Annotations** along with Lombok, ensuring seamless interaction between the application and the database.
* Implemented repository interfaces by **Spring JPA** to perform **CRUD** operations and queries on **MySQL** databases.
* Integrated **RESTful Web Services** using **MVC** and handled **JSON** payloads for data exchange.
* Enhanced the user experience by dynamically updating the User Interface based on the JSON data received from the server.
* Implemented session validation and logging using **Spring AOP module**.
* Used **Spring Security** for Authentication and Authorization of the application and **POSTMAN** for API testing.
* Implemented **MySQL** for efficient data storage.
* Used **Maven** as build and configuration tool and performed code deployments to local Tomcat server.
* **Utilized Apache kafka along with RabbitMQ** to efficiently handle messaging and data streaming requirements, ensuring reliable communication between distributed systems.
* Implemented all the layers by following **Test-Driven Development** using **Junit** for unit testing along with **Mockito** for integration testing and **Log4j** for logging.
* Hosted **Docker** images to containerize microservices for efficient deployment and scalability.
* Deployed applications on AWS services, utilizing **EC2 instances**, **S3** for object storage, and **RDS** for databases, Lambda serverless, while securing access with **IAM** for user controls and collaborative operations.
* Involved in **SDLC** Requirements gathering, requirements analysis, Design, Development and Testing of application developed using **Agile methodology** and actively participated in sprint meetings
* Used **JIRA** tool for Issue tracking, bug monitoring and managing work assignments in the system.
* Used **Git, GitLab** for version control system for collaboration, feedback and code review

**Environment**: Spring, MVC, Spring JPA, Spring AOP, Spring IOC, Spring Security, Hibernate ORM, MySQL, AWS, HTML5, CSS, JavaScript, AngularJS, Junit, Mockito, Agile, JIRA, Git.

**Junior Java Developer January 2019 – September 2020**

*Vanguard Hyderabad, India*

**Responsibilities:**

* Developed backend solutions using JavaEE, **Spring Framework**, and **Spring Boot.**
* Developed dynamic web applications using JSP, Servlets, and JSTL by using HTTP sessions, cookies and session management in segments.
* Implemented the **MVC** design patterns with Annotations to integrate different layers within the application.
* Implemented **Spring Data JPA** and **Hibernate ORM** to streamline database access, optimization in the development and deployment of **CRUD** operations for improved efficiency.
* Developed Hibernate persistence layer modules using EJB Java Persistence API (JPA) annotations and Entity Manager.
* Created **RESTful** endpoints and SOAP webservices to facilitate efficient communication between client applications and servers, ensuring efficient data exchange and interaction, along with API functionality in micro services.
* Utilized **Discovery Server** and **Netflix Eureka** for service registration and discovery in the backend,
* Tested rest API calls effectively using the **POSTMAN** REST client for Chrome.
* Employed **Spring Boot Starter** for rapid application bootstrapping, **DevTools** for efficient development with automatic reloading, and **Actuator** for monitoring application health and metrics.
* Executed SQL scripts and queries to retrieve and validate data by MySQL database, ensuring data integrity.
* Applied **Java 8** features such as **functional interfaces, streams and lambda expressions**.
* Worked in the **Eclipse IDE**, performed automated tests with **JUnit**, selenium and handled debugging tasks.
* Managed application builds with **Maven** and deployed applications on the **Apache Tomcat** Server.
* Utilized **Git** for version control to track and manage code changes efficiently.

**Environment**: JavaEE, Java8, Spring MVC, Spring Data JPA, Hibernate ORM, Spring IOC, Dependency Injection, CRUD, RESTful Web services, Junit, Git.

EDUCATION

**UNIVERSITY OF MISSOURI KANSAS CITY Kansas City, MO**

*Master of Science in Computer Science JANUARY 2023 – MAY 2024*

* Concentrated on: Software Security, Network Architecture, Principles of Data Science, Advanced Operating Systems, Computer vision, Formal Software Specifications

**GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY Hyderabad, India**

*Bachelor of Technology in Electronics and Communication Engineering AUGUST 2016 – SEPTEMBER 2020*