Kokila Kotha [A hexagon with white text

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PROFESSIONAL SUMMARY

Full Stack Software Developer with 4+ years of experience in web development, specializing in enterprise applications, adept in React for front end and Java/Spring Boot for backend development. Possess strong problem-solving abilities, effective communication skills, and the capability to excel both independently and collaboration in fast-paced teamwork.

* Experienced in object-oriented programming with a strong understanding of **OOP principles, collections, exception handling, annotations, concurrency, multi-threading, lambda expressions, and generics**.
* Proficient in Java, including **Java 8** features and functional programming with lambda expressions and streams.
* Skilled in building dynamic single-page applications using **HTML, CSS, JavaScript**, **ReactJS (**JSX, Redux, React Router, Hooks, Context API, Babel, WebPack**), jQuery** and **Angular.**
* Expertise in the Spring Framework, including **Spring MVC, Spring Boot, Spring Cloud, Spring Security (JWT, OAuth2)**, and database management using **Spring Data JPA, Hibernate ORM, and Spring JDBC**.
* Proficient in high-quality system object-oriented design patterns, particularly the **MVC design pattern**.
* Strong background in backend **microservices architecture**, implementing scalable and independent services.
* Expertise in building and consuming **RESTful** and **SOAP** web services with Spring Boot, including API design, **CRUD** operations, and frontend integration, with experience in **Postman** for testing and documentation.
* Strong working knowledge of **event-driven architecture**, enabling decoupled and scalable systems using events and message brokers such as **Apache Kafka and RabbitMQ**.
* Expertise in relational databases including **MySQL, Postgres**, and **Oracle DB**, as well as NoSQL databases such as **MongoDB** and **Elasticsearch**.
* Experienced in implementing and optimizing various **Data Structures** such as arrays, linked lists, stacks, queues, and trees to enhance application performance and efficiency.
* Hands-on experience with **Amazon Web Services** (AWS), including EC2, S3, EKS, ECR, ECS, IAM, RDS, SQS, DynamoDB, VPC, AWS API, Lambda, and security groups.
* Proficient in containerization and orchestration using **Docker** and **Kubernetes**.
* Proficient in **Jenkins CI/CD** pipelines for automating build, testing, and deployment processes.
* Extensive hands-on experience with web servers like **Apache Tomcat** and **JBOSS,** as well as development tools.
* Skilled in test development with automated unit testing (**JUnit**) and integration testing (**Mockito**).
* Proficient in version control system and code reviews using **Git** and **GitHub**.
* Practiced in **Agile methodologies** (Scrum, Sprint) and familiar with **Waterfall** and **Test-Driven Development**.
* Developed the skills to manage and contribute to projects across their full lifecycle, collaborating closely with cross-functional teams, and gaining experience in project management and technical coordination.

TECHNICAL SKILLS

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| **Programming Languages** | C, Java, JavaScript, HTML5, CSS3, SQL, XML |
| **Frameworks** | ReactJS, Node js, Angular, Spring (MVC, Core, Data), Spring Boot, JDBC |
| **Data Bases** | MySQL, MongoDB, PostgreSQL, Oracle |
| **Cloud Computing/ DevOps** | AWS (EC2, S3, EKC, ECR, IAM, RDS, VPC, Lambda, and Security groups), Docker, Kubernetes, Jenkins |
| **Application Server** | Apache Tomcat, JBOSS |
| **Operating System** | Mac OSX, Windows, Linux, Unix |
| **Testing and Logging** | JUnit, Mockito, Jest, Log4j, Splunk |
| **IDE** | IntelliJ, Eclipse, Visual Studio code |
| **Version Control** | Git, GitHub, Bitbucket |
| **Messaging queues** | Apache Kafka, RabbitMQ |
| **SDLC Methodologies** | Agile (Scrum, Kanban), Test-Driven Development (TDD) |

WORK EXPERIENCE

**Full Stack Developer January 2024 - Present**

*American Airlines, Remote Kansas City, Mo*

**Responsibilities:**

* Designed dynamic and responsive front-end interfaces using **HTML, CSS, and JavaScript**, with **React JS** for building reusable and efficient components.
* Created prototypes with component-based rendering in react using **Webpack** for dependency management and **Babel** for transpiling JSX to ES6
* Implemented dynamic routing and state management with **React Router** and **Redux**, enhancing user experience in single-page applications.
* Migrated class components to functional components using **React hooks** and **props** to enhance performance; created dynamic forms with **React Hook Forms** for efficient handling and validation, leveraging various hooks for state management and side effect optimization.
* Integrated frontend code using **Axios** to make authenticated API calls and fetch data from RESTful APIs, while managing **Virtual DOM** and component lifecycle phases including **mounting, updating,** and **unmounting**.
* Developed backend services with Spring Boot, implementing application layers (**Entity-Model, Repository, Controller, Service**) for business logic and data persistence, and employed the **DTO design pattern** for clean data transfer between service and presentation layers.
* Implemented a **microservices architecture** using Spring Boot and **Feign Client** for asynchronous communication, configured an **API Gateway** to manage and secure endpoints as a single-entry point for client requests, and integrated **Spring Security** with **JWT** for secure authentication and authorization.
* Utilized **Java 8** features such as Stream API, Lambda expressions, Functional interfaces, Date/Time changes.
* Designed and implemented **MySQL** databases using Hibernate ORM and annotations for efficient object-relational mapping, and proficiently managed large datasets in **MongoDB** with a focus on schema design, indexing strategies, and aggregation for optimal performance.
* Applied advanced algorithms such as hashing for quick data retrieval and monitored database health.
* Utilized **Apache Kafka** for building real-time data pipelines and streaming applications, including setting up Kafka clusters, topic management, and ensuring high availability and fault tolerance.
* Utilized **Gradle** for efficient dependency management, and deployed applications on the **JBOSS** application server.
* Created unit tests for Spring Boot services and controllers using **JUnit** and **Mockito**, maintained comprehensive tests for React components using **Jest**.
* Experienced with containerization using **Docker** and **Kubernetes** for deployment in AWS, leveraging AWS cloud services such as EC2, S3, RDS, ECR, ECS, and IAM for infrastructure provisioning, database management, container registry, and access control.
* Deployed applications into **AWS Code** pipeline for continuous integration and continuous deployment
* Integrated **SonarQube** into the CI/CD pipeline for continuous static code analysis, ensuring adherence to coding standards, detecting code smells, bugs, and vulnerabilities early in the development process.
* Used **GitHub** to maintain the version, code merges and created new branches for implementing new features.
* Communicated effectively with team members, sharing insights, ideas, and progress updates to maintain alignment and foster a collaborative work environment.
* Involved in the **Software Development Life Cycle** and collaborated in an **Agile** environment, driving innovative approaches for complex product needs and ensuring timely delivery of features.

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

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

*Royal Bank of Canada Hyderabad, India*

**Responsibilities:**

* Worked in fintech credit cards team at the Royal Bank of Canada, developing a credit card application system.
* Developed a responsive frontend 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**.
* Utilized @Input and @Output to transfer data between Parent and Child components, along with dependency injection.
* Integrated **ngModel** to achieve two-way data binding, and used structured directives, event binding, router outlet, and custom pipes for filtering and sorting data.
* Developed backend services using the Spring framework, including **Beans, Dependency Injection, Spring MVC, Hibernate ORM, Spring Data JPA, and Spring Boot.**
* Employed **Hibernate ORM** for mapping Java objects to database tables, creating POJOs and using Hibernate Annotations along with **Lombok** for efficient database interactions.
* Integrated **RESTful Web Services**, handling **JSON** payloads for efficient data exchange and implementing repository interfaces with Spring JPA for **CRUD** operations and queries on **MySQL** databases.
* Implemented session validation and logging using **Spring AOP** and utilized **Spring Security** with **OAuth 2** for Authentication and Authorization of the application.
* Managed and optimized relational databases using **MySQL** and **PostgreSQL,** including writing complex SQL queries, stored procedures, and triggers, and implemented **MongoDB** for unstructured data.
* Designed and implemented efficient algorithms for data manipulation and retrieval, optimizing performance and reducing computational complexity.
* Enhanced the user experience by dynamically updating the User Interface based on JSON data received from the server and tested APIs using **POSTMAN**, handling HTTP requests with ‘**HttpClientModule**’ for backend communication.
* **Integrated message brokers like RabbitMQ and Kafka to decouple microservices, enhance scalability, and ensure reliable message delivery.**
* Implemented observability practices with **Zipkin Sleuth** for distributed tracing and managed application logs using the **ELK stack** (Elasticsearch, Logstash, Kibana) to identify and resolve issues.
* Used **Maven** as build and configuration tool and performed code deployments to local Tomcat server.
* Followed **Test-Driven Development** (TDD) principles using **JUnit** for unit testing, **Mockito** for integration testing, and Log4j for logging.
* Created **Docker** images to containerize microservices for efficient deployment and scalability.
* Deployed applications on **AWS services**, utilizing EC2 instances, S3 for object storage, RDS for databases, Step Functions, and Lambda serverless computing, while securing access with IAM.
* 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** for issue tracking and **Git/GitLab** for version control, collaboration, and code review.

**Environment**: Spring, MVC, Spring JPA, Spring AOP, Spring IOC, Spring Security, Hibernate ORM, PostgreSQL, MySQL, MongoDB, AWS, HTML5, CSS, JavaScript, Angular9, Bootstrap, Ajax, jQuery, Kafka, RabbitMQ, ELK stack, Maven, Junit, Mockito, Log4j, POSTMAN, Agile, JIRA, Git.

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

*Vanguard Hyderabad, India*

**Responsibilities:**

* Developed robust backend solutions using **JavaEE, Spring Framework, and Spring Boot**, ensuring high performance and scalability for web applications.
* Implemented **Spring Data JPA** and **Hibernate ORM** to streamline database access. Optimized CRUD operations, resulting in improved efficiency and faster data retrieval.
* Developed Hibernate persistence layer modules utilizing **EJB** Java Persistence API (JPA) annotations and Entity Manager, facilitating seamless data persistence and management.
* Utilized **Java Message Service** (JMS) for messaging, ensuring reliable communication between distributed systems and improving system integration and data consistency
* Applied **Java 8** features such as functional interfaces, streams, and lambda expressions to enhance code readability, efficiency, and performance.
* Developed dynamic web applications using **JSP, Servlets, and JSTL**. Utilized **HTTP sessions, cookies**, and session management to ensure secure and efficient user interactions.
* Implemented **MVC design patterns** with annotations, integrating different layers within the application to enhance modularity and maintainability.
* Created and consumed SOAP-based web services to ensure seamless integration between diverse systems, utilizing WSDL for service definition and XML for data exchange
* Utilized **Discovery Server and Netflix Eureka** for service registration and discovery in the backend, enhancing service availability and load balancing.
* Tested SOAP API calls effectively using **POSTMAN** for reliability and correctness of the API responses.
* Extracted data from **ORACLE and SQL** Server databases, ensuring accurate and efficient data retrieval for application use.
* Worked in the **Eclipse IDE**, performed test automation, and automated testing with **JUnit** handled debugging tasks to ensure code quality and functionality.
* Managed application builds with **Maven** and deployed applications on the **Apache Tomcat** application server, for smooth build processes and reliable deployments.
* Utilized **Git** for version control to track and manage code changes efficiently, ensuring collaboration and version management among team members.

**Environment**: JavaEE, Java8, JSP, Servlets, JSTL, Spring MVC, Spring Data JPA, Hibernate ORM, Spring IOC, Dependency Injection, CRUD, RESTful Web services, JMS, Netflix Eureka, Discovery Serve, Tomcat, 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*