**Amram M**

**Full Stack Developer**

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**Professional summary:**

* Over 6+ years of experience in full-stack development, specializing in both front-end and back-end web applications.
* Proficient in **Java, Spring Boot, Hibernate,** and **modern JavaScript frameworks** like **ReactJS** for building scalable, high-performance web applications.
* Extensive experience in **microservices architecture** and API development, integrating React front-end applications with back-end services, reducing response time by **30%** through efficient API handling.
* Developed **responsive and dynamic web interfaces** using **ReactJs**, ensuring seamless user experience across desktop and mobile platforms.
* Collaborated closely with **UX/UI designers** to implement visually appealing, **user-centric designs** and consistent branding across components.
* Integrated and consumed **RESTful APIs**, efficiently managing application state using **ReactJs** (or reactive properties) for scalable frontend architecture.
* Ensured **cross-browser compatibility** and responsiveness by applying CSS best practices and testing on various devices and browsers.
* Applied **component-based architecture** to promote reusability and maintainability in large-scale Vue applications.
* Implemented **lazy loading, dynamic routing, and performance optimizations**, reducing page load time and enhancing user engagement.
* Expertise in implementing **RESTful APIs** and working with state management libraries such as Redux to build dynamic and scalable front-end solutions.
* Hands-on experience in deploying applications with **CI/CD pipelines (Jenkins, Azure DevOps), Docker**, and **Kubernetes** to ensure smooth continuous delivery.
* Skilled in Test-Driven Development (TDD) with tools like JUnit and Mockito, as well as front-end testing using Jest and React Testing Library for robust unit and integration testing.
* Solid knowledge of cloud platforms (AWS, Azure, GCP) and integrating cloud-based services into full-stack applications, improving application scalability and security.
* Strong communicator with experience collaborating with cross-functional teams, offshore teams, and clients to ensure successful project delivery.

**Technical expertise skills**:

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| **Java& J2EE Technologies** | Core Java – collections, Exception handling, IO, Multi-Threading, Servlets, Spring Boot 5.3, Spring JPA, Hibernate, JAVA 1.8, 11,17. |
| **Spring Frameworks** | Spring IOC, Spring MVC, Spring Boot, Spring Data, Spring Kafka, Spring-Cloud, Spring-Config, Spring-Camel |
| **Front-End Focus** | ReactJS, JavaScript, Redux, Material-UI, and Bootstrap |
| **Security** | HTTPS, OAUTH2, JWT, Spring Security |
| **ORM** | JPA, Hibernate |
| **Application/Web Servers** | Apache Tomcat 8, IBM WebSphere |
| **Databases** | Oracle, MY SQL, PL/SQL, H2Database, NoSQL, MongoDB, ELK, Snowflake |
| **Implementation Approaches** | Test Driven Development (TDD), Behavioral Driven Development (BDD) |
| **Messaging Frameworks** | Apache Kafka, AWS SQS |
| **IDE Tools** | Eclipse, IntelliJ, Spring Tool Suite |
| **Operating Systems** | Windows, Linux. |
| **Version Control Tools** | GitHub, Gitlab, Bitbucket |
| **Testing Frameworks** | Junit4/5, Mockito, Jest and React Testing Library |
| **Build Tools** | ANT, Maven, Gradle |
| **Cloud Services** | AWS EC2, S3, AWS CloudWatch, Amazon API Gateway, AWS  RDS, Gcloud, Azure. |
| **Methodologies** | Agile, SCRUM |
| **Devops** | CI/CD, Jenkins. |
| **Other Tools** | Sonar, Jira Board, Postman, Putty. |

**Project Details:**

**Client: Ford, MI, USA Feb 2023 – Till Date**

**FullStack Application Developer**

**Project Title:** Advanced Infotainment System Development for Ford Vehicles

**Project Overview:**

The project aims to develop a next-generation infotainment system for Ford vehicles, providing a seamless and engaging user experience. The infotainment system will integrate cutting-edge technologies to deliver a robust platform for in-car entertainment, navigation, and connectivity. This system will be designed to cater to the needs of modern drivers, offering features such as voice recognition, real-time traffic updates, mobile device integration, and personalized settings.

**Responsibilities:**

* Involved in the full software development lifecycle (SDLC), from requirement gathering, design, development, and testing, using Agile methodology and participating in daily Scrum sessions.
* Designed and implemented the frontend of the infotainment system using ReactJS, ensuring responsive UI and seamless integration of features like voice recognition, real-time traffic updates, and mobile device integration.
* Developed backend services using Spring Boot to handle API requests, manage user settings, and retrieve live vehicle data.
* Developed and enhanced the **frontend interface using ReactJs**, ensuring interactive and responsive designs across various infotainment screen sizes.
* Collaborated with UX/UI teams to translate wireframes and mockups into clean, accessible Vue.js components aligned with Ford’s branding.
* Consumed **RESTful APIs** from Spring Boot backend services to render real-time traffic, vehicle status, and personalized user settings.
* Ensured **cross-browser compatibility** and implemented responsive layouts using Bootstrap and custom CSS.
* Implemented state management for complex components using **ReactJs**, ensuring smooth UI behavior.
* Led efforts to secure the application using Spring Security and JWT tokens, ensuring the system met industry compliance standards and successfully passing security audits with zero critical vulnerabilities.
* Implemented performance optimizations that reduced system load times by 25%, improving overall system responsiveness and reliability.
* Built and deployed microservices and RESTful APIs to facilitate communication between the backend and vehicle systems, enhancing functionality.
* Worked with GitHub for version control and code reviews, ensuring smooth collaboration across global teams.
* Developed unit tests using JUnit and conducted integration testing to ensure seamless functionality across different system components.
* Actively participated in sprint planning, retrospectives, and daily stand-ups, collaborating with cross-functional teams to deliver key features on time.
* Utilized JIRA for task tracking, issue reporting, and managing project timelines.

**Environment:** Java 8,11,17, JavaScript, Spring Boot 5.3, Node.js, ReactJS, Spring Security, auth 2.0, Hibernate, KAFKA, Maven, Snowflake, Git, AWS, Docker, TDD, STS, Apache Tomcat, Oracle, Mockito, Eclipse, Visual Studio code.

**Client: VR DELLA INFOTECH, CHENNAI, INDIA Apr 2021 – Jul 2022**

**Role: Java FullStack Developer**

**Project Overview:**

The primary goal of this project was to develop a robust cloud platform solution that enables users to efficiently manage and deploy resources across multiple cloud service providers, including AWS, Azure, and Google Cloud Platform (GCP). The project aimed to streamline cloud account management, provide real-time visibility into cost and usage, and enhance security through strong authentication mechanisms.

**Responsibilities:**

* Participated in all phases of development, analysis, design, program analysis, programming, debugging, testing, documentation, delivery, and implementation.
* Implemented the Micro Services to provide RESTful API utilizing Spring Boot with Spring.
* Implemented various features of spring framework such as Dependency Injection, IOC Containers, and Spring ORM integration with Hibernate/JPA.
* Integrated Multi-Cloud Management with Spring Boot using Terraform.
* Implemented concurrent cloud account management using Java’s Thread Pool and Fork/Join framework to streamline the login process and fetch details from three different cloud accounts via Terraform, enhancing system performance and reducing execution time by up to 60%.
* Leveraged Terraform for infrastructure as code, enabling the seamless integration of Azure cloud services with Spring Boot.
* Implemented secure access to cloud accounts by managing secret keys, access keys, and region configurations.
* Built functionality to display real-time data on the cost of running instances and the number of active instances across all three cloud platforms, providing comprehensive visibility and cost management in a single dashboard.
* Created Single page web applications using Restful web services with AJAX and React JS.
* Extensively used ReactJS, filters, service and bootstrap to support desktop, mobiles versions and also built front end components.
* Worked with Elasticsearch and Kibana to create dashboards for system monitoring and real-time logging, enhancing troubleshooting efficiency and reducing incident resolution time by 30%.
* Created tables, triggers, PL/SQL Stored Procedures, SQL queries, Joins, constraints, and views for SQL Server.
* Used Mockito for the unit testing and Selenium for the automation testing.
* Used Maven to configure, build and deploy the Modules. Implemented Continuous Integration of automation framework using tools like Jenkins.
* Deploying applications as docker containers in different environments using Azure pipeline.
* Extensive use of Gitlab for version controlling and source code management.
* Actively participated in peer code reviews for better code quality. Participated in fast fixing of bugs during release activity.
* Actively participated in continuous delivery and integration models to achieve the Agile Star for the team.

**Environment:**Java 1.8, ReactJS, Node.js, HTML, CSS3, Spring MVC, Hibernate, SQL, NoSQL, REST, SOAP, AWS, Azure, gCloud, SQL Server, Mockito, Azure.

**Client: Intellect Design Arena, Chennai, INDIA Jun 2018 to Mar 2021**

**Role: Java / J2EE Developer**

**Project Overview:**

The project involved the modernization and development of a core banking platform used by financial institutions for managing customer accounts, transactions, and other banking services. The key focus was on migrating the legacy Struts-based application to the Spring Boot framework, streamlining both the backend and frontend architecture while ensuring optimal performance and scalability. This platform was built using Spring Boot and ReactJS/Angular for the frontend, incorporating SQL databases and stored procedures to manage financial transactions. Working within an Agile environment, the team implemented key banking features that allowed for efficient account management, secure transactions, and improved user experience.

**Responsibilities:**

* Migration from Struts to Spring Boot: Played a critical role in migrating the existing Struts-based application to Spring Boot, improving performance and simplifying the overall codebase for easier maintenance and further development.
* Full Stack Development: Handled the development of both backend services in Spring Boot and front-end features using ReactJS and Angular. Implemented UI components for banking modules such as transaction history, loan services, and account management.
* Backend Development: Developed RESTful web services using Spring Boot and integrated them with the database using Spring JPA and Hibernate. This included building services for core banking operations like account opening, transaction processing, and loan management.
* Database Management & SQL: Utilized complex SQL queries and stored procedures for handling large-scale financial transactions, ensuring accuracy and speed. Optimized queries to improve response times by 20%, leading to faster data retrieval and processing.
* API Development: Created and maintained REST APIs for seamless communication between the frontend and backend, improving application response times and reducing latency.
* Frontend Development: Developed dynamic and interactive user interfaces using ReactJS and Angular for customer onboarding, transaction views, and account dashboards. Enhanced the user experience by implementing responsive designs and leveraging Material UI for consistent styling.
* Agile Development: Actively participated in Agile Scrum practices, including daily stand-ups, sprint planning, and retrospectives. Ensured that all features were delivered within the sprint timelines and aligned with business requirements.
* Version Control with GitHub: Used GitHub for source code management, maintaining multiple branches, and collaborating with the team for seamless code integration and deployment. Followed Git best practices for merging code and resolving conflicts.
* Test-Driven Development (TDD): Applied TDD practices by writing unit tests using JUnit and integration tests with Mockito, ensuring that both backend and frontend components were robust and error-free. This helped reduce bugs and improve code quality.
* Continuous Integration (CI): Set up CI pipelines using Jenkins for automated builds, testing, and deployment, reducing the time spent on manual deployment processes and improving overall delivery speed.
* Key Achievements:
* Successfully migrated from Struts to Spring Boot, which improved the application's performance and reduced technical debt, making the system more scalable.
* Improved the performance of SQL queries and stored procedures by 20%, optimizing the handling of complex banking transactions and reducing system load times.
* Delivered high-quality, responsive front-end designs using ReactJS/Angular and ensured smooth integration with backend APIs.
* Increased deployment efficiency by 20% by automating build and deployment processes with CI.
* Enhanced system reliability and maintainability by writing comprehensive unit tests and adopting TDD, reducing bugs and increasing code coverage.
* Used Bitbucket to maintain the version of the files and took the responsibility to merge code from branch to trunk and create new branch when new feature implementation starts.

**Environment:** JDK 1.8, Java SE, J2EE, Tomcat, Apache Kafka, Angular, Spring Boot 1.2.x, Maven 3.0, Visual Studio code, Bitbucket, JUnit, Agile, Eclipse, Windows 10.

**Education:**

* Master’s in computer science from Wichita State University, Wichita, KS.
* B. Tech in stream of Information technology from SRKR Engineering College, India.