**Sowmya Vadlakonda**

**Full Stack Java Developer**

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**Professional Summary:**

* Over 6 years of extensive experience in designing, developing, and maintaining dynamic and responsive user interfaces using AngularJS, React, and React Hooks, ensuring cross-browser compatibility and optimal user experience.
* Expertise in developing Single Page Applications (SPA) and utilizing frameworks like AngularJS for efficient client-side routing, state management, and data handling.
* Proficient in creating reusable components and directives in AngularJS to maintain consistency and scalability across applications.
* Strong background in frontend technologies including HTML5, CSS3, and JavaScript ES6+, employing modern JavaScript features for enhanced functionality and performance optimization.
* Hands-on experience in designing and implementing RESTful APIs using Spring Boot and Java, facilitating seamless communication between frontend and backend systems.
* Expertise in backend development with Java, employing Spring Security for role-based access control and implementing business logic adhering to SOLID principles.
* Experience in microservices architecture using Spring Cloud, ensuring scalability, fault tolerance, and independent deployment of services.
* Deployed applications on AWS and Azure platforms, utilizing services like EC2, S3, Azure Kubernetes Service (AKS), and Azure Functions for scalable and cost-effective solutions.
* Proficient in database design and management using MySQL, PostgreSQL, MongoDB, and Cassandra, optimizing query performance and ensuring data integrity.
* Implemented CI/CD pipelines using Jenkins, Azure DevOps, and Docker for automated build, test, and deployment processes, ensuring rapid delivery of high-quality software.
* Expertise in automated testing frameworks including Jest, Enzyme, JUnit, and Mockito for unit testing and ensuring code reliability across frontend and backend components.
* Experienced in performance testing using tools like JMeter and Artillery to identify bottlenecks and ensure application scalability under varying loads.
* Familiar with version control systems such as Git and SVN, utilizing Agile methodologies and tools like Jira for effective project management and collaboration.
* Proficient in deploying applications using Jenkins for CI/CD pipelines, Maven scripts, and managing UNIX deployment tasks.
* Configured and maintained continuous integration tools like Jenkins, and automated build and release processes.
* Developed and deployed Maven scripts to build WAR, EAR, and JAR files, ensuring smooth CI/CD operations.

**Technical Skills:**

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| **Languages** | **Java 8, JavaScript (ES6+), SQL, CQL (Cassandra Query Language)** |
| **Frameworks /ORM** | **AngularJS, React, React Hooks, Spring Boot, Hibernate, Spring Cloud** |
| **Web Technologies/** | **HTML5, CSS3, Bootstrap, RESTful APIs, GraphQL** |
| **Cloud Technologies** | **AWS (EC2, S3, Lambda, Kubernetes), Azure (AKS, Azure Functions, Azure DevOps)** |
| **IDE’s** | **Visual Studio Code, Eclipse, IntelliJ** |
| **Databases** | **MySQL, PostgreSQL, MongoDB, Cassandra** |
| **Version Control/Build Tools** | **Git, SVN, Jenkins, Docker, Maven, Gradle** |
| **Testing Tools** | **Jest, Enzyme, JUnit, Mockito, JMeter, Artillery** |
| **Web/Application Servers** | **Tomcat, Apache, Express.js** |
| **Operating Systems** | **Windows, Unix, Linux** |

**Professional Experience:**

**NTT Data Services, Charlotte, NC March 2023- Present**

**Senior Full Stack Java Developer**

**Project: EHR++ - Electronic Health Records System**

EHR++ is an Electronic Health Records (EHR) system developed to modernize and streamline healthcare data management. Leveraging Java technologies, the system integrates seamlessly with existing healthcare infrastructures, facilitating efficient data entry, retrieval, and analysis across multiple medical specialties. EHR++ aims to enhance clinical workflows, optimize patient care delivery, and improve overall healthcare outcomes through enhanced data accessibility and usability.

**Responsibilities:**

* Developed dynamic, responsive user interfaces using AngularJS to enhance user experience and ensure cross-browser compatibility.
* Created reusable AngularJS components and directives to streamline UI development and maintain consistency across the application.
* Integrated RESTful APIs with AngularJS services to fetch and display real-time data.
* Utilized CSS3 and HTML5 to create responsive designs and improve the user experience on various devices.
* Designed and implemented RESTful APIs using Spring Boot to facilitate communication between the frontend and backend systems.
* Developed complex business logic and workflows in Java, adhering to SOLID principles and utilizing design patterns for maintainable code.
* Utilized Hibernate ORM for efficient database interactions and implemented caching mechanisms to improve backend performance.
* Created microservices architecture with Spring Cloud to ensure scalability and independent deployment of backend services.
* Conducted code reviews and performance tuning to optimize Java applications for high performance and low latency.
* Deployed applications on AWS, leveraging services such as EC2, S3, and Lambda for scalable and cost-effective cloud solutions.
* Utilized Docker for containerization and Kubernetes for orchestration to ensure consistent environments and streamline deployment processes.
* Implemented CI/CD pipelines using Jenkins and AWS Code Pipeline to automate build, test, and deployment workflows on AWS infrastructure.
* Designed and managed NoSQL databases using MongoDB, ensuring flexible and scalable data storage solutions.
* Developed complex MongoDB queries and aggregation pipelines to support application requirements and business logic.
* Implemented MongoDB sharding and replication strategies to ensure high availability and horizontal scalability.
* Utilized MongoDB Atlas for database management, monitoring, and backup solutions.
* Automated deployment processes with Jenkins, Maven, and Ansible to minimize manual intervention and reduce deployment time.
* Monitored application performance and resolved deployment-related issues promptly to ensure high availability and reliability.
* Conducted unit testing using JUnit and Mockito to ensure code reliability and identify bugs early in the development process.
* Utilized Selenium for automated frontend testing to ensure comprehensive test coverage for all user interfaces.
* Performed load testing and stress testing using JMeter to identify performance bottlenecks and ensure application scalability under heavy load.
* Implemented continuous testing in CI/CD pipelines to ensure high-quality software delivery.

**Environment**: AngularJS, CSS3, HTML5, Spring Boot, Java, Hibernate, Spring Cloud, MongoDB, MongoDB Atlas, Docker, Kubernetes, AWS (EC2, S3, Lambda, Code Pipeline, Elastic Beanstalk, Terraform), Jenkins, Maven, Ansible, JUnit, Mockito, Selenium WebDriver.

**Rocket Mortgage, Texas May 2021-March 2023**

**Full Stack Java Developer**

**Project: CRM360 - Customer Relationship Management System**

CRM360 is a comprehensive Customer Relationship Management (CRM) system tailored specifically for managing relationships with mortgage customers at Rocket Mortgage. This Java-based application aims to streamline customer interactions, enhance service efficiency, and improve overall customer satisfaction.

**Responsibilities:**

* Developed interactive and dynamic single-page applications (SPA) using AngularJS to provide a seamless user experience.
* Implemented AngularJS routing and state management to enable efficient navigation and data handling within the application.
* Created custom AngularJS filters and directives to extend the functionality of HTML and streamline data presentation.
* Integrated AngularJS with third-party libraries and APIs to enhance application features and functionalities.
* Designed and developed robust RESTful APIs using Spring Boot to support frontend interactions and external integrations.
* Implemented asynchronous processing and event-driven architecture using Java and Spring Boot to improve application responsiveness.
* Utilized Spring Security to implement authentication and authorization mechanisms, ensuring secure access to backend services.
* Developed and maintained complex business logic, utilizing Java 8 features such as streams and lambda expressions for cleaner and more efficient code.
* Deployed and managed applications on Azure, leveraging services such as Azure App Service, Azure Functions, and Azure Blob Storage for scalable solutions.
* Implemented Azure DevOps for continuous integration and continuous deployment (CI/CD) to automate build, test, and deployment workflows.
* Utilized Azure Monitor and Application Insights for logging, monitoring, and alerting to ensure application performance and reliability.
* Configured Azure Virtual Machines and Virtual Networks to create and manage isolated and secure environments for development and testing.
* Designed and managed relational databases using MySQL, ensuring data integrity and optimized query performance.
* Developed complex SQL queries, stored procedures, and triggers to handle data manipulation and business logic in the database layer.
* Implemented indexing and query optimization techniques in MySQL to improve database performance and reduce latency.
* Conducted database schema design and normalization to ensure efficient data storage and retrieval.
* Automated deployment processes using Azure Pipelines, reducing manual effort and minimizing deployment errors.
* Configured and managed application environments using Docker and Kubernetes to ensure consistent and scalable deployments.
* Monitored deployment processes and resolved issues promptly to ensure continuous availability and reliability of applications.

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**Environment:** AngularJS, HTML, Spring Boot, Java 8, Spring Security, Azure (Azure App Service, Azure Functions, Azure Blob Storage, Azure DevOps, Azure Monitor, Application Insights, Azure Virtual Machines, Virtual Networks), MySQL, Docker, Kubernetes.

**Hobby Lobby, Oklahoma Nov 2019-May 2021**

**Software Developer**

**Project: Warehouse Management System (WMS)**

The Warehouse Management System (WMS) is an advanced logistics solution designed to optimize warehouse operations, ensuring efficient inventory management, order processing, and shipment coordination. WMS integrates seamlessly with various supply chain components, providing real-time visibility and control over inventory and warehouse activities. The primary objective of the platform is to enhance operational efficiency, reduce errors, and improve overall productivity within the warehouse environment.

**Responsibilities:**

* Developed dynamic and responsive web applications using React, leveraging React Hooks and Context API for state management.
* Implemented reusable and modular components in React to ensure consistency and maintainability of the codebase.
* Utilized React Router for client-side routing, enabling seamless navigation and enhanced user experience.
* Applied styled-components and CSS-in-JS for styling React components, ensuring a consistent and maintainable design system.
* Designed and developed RESTful APIs using Spring Boot to handle business logic and data processing.
* Implemented GraphQL APIs to provide flexible and efficient data querying capabilities for frontend applications.
* Utilized Java 11 features, such as local variable type inference and the new HTTP client, to improve code readability and performance.
* Developed and maintained microservices architecture using Spring Cloud to ensure scalability and modularity of backend services.
* Implemented asynchronous processing with Java Completable Future and Spring Boot to enhance application performance.
* Deployed and managed applications on Azure, leveraging services such as Azure Kubernetes Service (AKS) and Azure Cosmos DB.
* Utilized Azure Functions for serverless computing, enabling efficient execution of background tasks and event-driven processes.
* Implemented Azure Logic Apps for workflow automation and integration with other cloud services and on-premises systems.
* Managed application monitoring and logging using Azure Application Insights and Log Analytics to ensure operational reliability.
* Designed and optimized relational databases using PostgreSQL, ensuring efficient data storage and retrieval.
* Developed complex SQL queries, views, and functions to support application requirements and business logic.
* Implemented data migration and replication strategies in PostgreSQL to ensure data consistency and availability.
* Utilized PostgreSQL indexing and partitioning to enhance query performance and manage large datasets efficiently.
* Automated deployment processes using Azure DevOps and GitHub Actions, reducing manual effort and minimizing deployment errors.
* Configured and managed CI/CD pipelines to ensure smooth and efficient deployment of applications on Azure infrastructure.
* Utilized Docker for containerization and Azure Kubernetes Service (AKS) for orchestration, ensuring consistent and scalable deployments.
* Conducted unit testing using JUnit and Mockito to ensure code reliability and early detection of bugs.
* Utilized Jest and Enzyme for unit and integration testing of React components, ensuring comprehensive test coverage.

**Environment:** React, React Hooks, Context API, styled-components, CSS-in-JS, Spring Boot, Java 11, Spring Cloud, Java Completable Future, GraphQL, Azure (Azure Kubernetes Service (AKS), Azure Cosmos DB, Azure Functions, Azure Logic Apps, Azure Application Insights, Log Analytics, Azure DevOps), PostgreSQL, SQL, Docker, Kubernetes, Jest, Enzyme.

**AGFA HealthCare, Atlanta Apr 2018-Oct 2019**

**Software Engineer**

**Project: Clinical Decision Support Systems (CDSS)**

Clinical Decision Support Systems (CDSS) are advanced healthcare solutions designed to provide healthcare professionals with patient-specific assessments or recommendations to aid clinical decision-making. CDSS integrates clinical guidelines, patient data, and medical knowledge to offer real-time support, helping clinicians make more informed decisions. The primary objective of CDSS is to enhance the quality of care, improve patient outcomes, and reduce errors by ensuring that clinicians have access to the best available evidence and data when making clinical decisions. The system is designed to be user-friendly, providing seamless integration with electronic health records (EHR) and other healthcare IT systems, ensuring timely and accurate support throughout the clinical workflow.

**Responsibilities:**

* Developed user-friendly web applications using React, leveraging functional components and React Hooks for state and lifecycle management.
* Implemented dynamic and responsive UI components using Material-UI to ensure a consistent look and feel across the application.
* Utilized React Router for handling client-side routing and enabling smooth navigation between pages.
* Optimized React application performance using lazy loading and code splitting with React.lazy and Suspense.
* Utilized Java 8 features, such as lambda expressions and streams, to write clean and efficient code.
* Implemented role-based access control (RBAC) using Spring Security to manage user permissions and enhance application security.
* Developed batch processing tasks using Spring Batch to handle large volumes of data processing efficiently.
* Created asynchronous messaging systems using Apache Kafka to improve the scalability and reliability of backend services.
* Deployed applications on Google Cloud Platform (GCP), leveraging services such as Google App Engine and Cloud Storage.
* Utilized Google Cloud Functions for serverless computing, enabling efficient execution of background tasks and event-driven processes.
* Implemented Google Cloud Pub/Sub for messaging and event distribution between microservices.
* Managed application performance and reliability using Google Stackdriver for monitoring and logging.
* Designed and managed NoSQL databases using Cassandra, ensuring scalable and high-performance data storage solutions.
* Developed complex CQL (Cassandra Query Language) queries to handle data retrieval and manipulation efficiently.
* Implemented data modelling best practices in Cassandra to optimize read and write operations.
* Utilized Cassandra’s replication and partitioning features to ensure data availability and fault tolerance.
* Automated deployment processes using Jenkins and GCP Cloud Build, reducing manual effort and minimizing deployment errors.
* Configured and managed CI/CD pipelines to ensure smooth and efficient deployment of applications on GCP.
* Utilized Docker for containerization and Google Kubernetes Engine (GKE) for orchestration, ensuring consistent and scalable deployments.

**Environment:** React, React Hooks, Material-UI, Java 8, Spring Security, Spring Batch, Apache Kafka, Google Cloud Platform (GCP), Google App Engine, Cloud Storage, Google Cloud Functions, Google Cloud Pub/Sub, Google Stack driver, Cassandra, CQL (Cassandra Query Language), Jenkins, GCP Cloud Build, Docker, Google Kubernetes Engine (GKE).

**Xpress Bees, Pune July 2017- Apr 2018**

**Software Engineer**

**Project: Automated Billing and Invoicing System**

The Automated Billing and Invoicing System is a sophisticated financial solution designed to streamline the billing processes for logistics and supply chain operations. This system ensures accurate and timely generation of invoices, reducing manual errors and improving overall efficiency. By integrating with existing order management and delivery systems, the platform automates the entire billing cycle, from order confirmation to payment processing. The primary objective is to enhance financial accuracy, speed up payment cycles, and improve cash flow management, thereby increasing customer satisfaction and operational effectiveness.

**Responsibilities:**

* Developed dynamic and responsive user interfaces using React.js and Bootstrap.
* Enhanced user experience by incorporating modern JavaScript (ES6+) features and optimizing page load times.
* Integrated RESTful APIs with the frontend to display and manage product data.
* Designed and developed RESTful web services using Node.js and Express.js.
* Developed server-side logic for handling complex business rules and data processing.
* Created middleware for logging and error handling to ensure robust and maintainable code.
* Created triggers, stored procedures, and SQL queries in Microsoft SQL Server to carry out back-end database activities.
* Jenkins was configured and used to build, deploy, and continue integrating the applications.
* Developed comprehensive unit tests for frontend components using Jest and Enzyme, achieving 90%+ test coverage.
* Automated API testing using Postman scripts, ensuring API endpoints function correctly under different scenarios.
* Used Git for source control management and Agile Jira for user story tracking.

**Environment:** React.js, Bootstrap, JavaScript (ES6+), RE STful APIs, Node.js, Express.js, Microsoft SQL Server, Jenkins, Jest, Enzyme, Postman, Git.

**Education:**

Manhattan College || master’s in computer science

CVR College of engineering || Bachelor’s in CSE