Sruthi Chirumamilla

+1 (617) 506-9582 | s.chirumamilla007@gmail.com | LinkedIn | GitHub

Professional Summary

Software Engineer with over 4 years of experience in full-stack development and cloud technologies, specializing in building scalable web applications using microservices, CI/CD, and AWS, focused on optimizing application performance and enhancing user experiences.

Technical Skills

Programming Languages:	C, Python, Java, JavaScript
Front-End Frameworks:	HTML5, CSS3, Bootstrap, UI Material, jQuery, Typescript, ES6, React, Redux, React Hooks, Angular
Back-End Frameworks:	Spring Boot, Spring MVC, Spring Data JPA, Hibernate ORM, Node, Express, Microservices
Database Management:	SQL, MongoDB (NoSQL), PostgreSQL, MySQL, Oracle
Cloud & Deployment:	AWS(EC2, S3, Load Balancer, Lambda, SNS, Cloud Watch), Docker
Other Technologies & Tools:	REST API, RESTful API, Servlets, JSP, JDBC, Maven, Multi-threading, Apache Kafka, RabbitMQ, SOAP, Jenkins, Code Ship, JUnit, Mockito, React Testing Library, Jest, Apache Tomcat, NetBeans, IntelliJ IDEA, Eclipse, Waterfall, Agile, Jira, Git, GitHub, Bitbucket, Swagger Open API, Postman

Professional Experience

Software Engineer | Fidelity Investments, MA   **Jul 2023 – Current**

- Designed the core logic of the **Client Portfolio Management** application using **Java 11** and **Spring Boot**, implementing **RESTful APIs** to process complex financial data and integrate with third-party financial services.
- Engineered responsive user interfaces with **React.js and Redux**, enhancing user experience for financial advisors managing client portfolios.
- Developed real-time data pipelines for portfolio performance analytics, allowing financial advisors to track portfolio performance and risk exposure for **200,000+ clients**.
- Integrated **Apache Kafka** for event-driven data processing and **Elasticsearch** to enable fast, scalable search and analytics, improving portfolio review efficiency by **30%** and enhancing real-time data insights.
- Optimized database performance by refining Hibernate queries and implementing **Redis** caching, reducing query execution time and improving response speeds by **20%** in critical financial operations.
- Tuned JVM memory configurations and utilized **Spring's asynchronous processing** to boost system throughput, ensuring smoother performance and a more responsive user experience under high workloads.
- Incorporated **MongoDB** as the primary database for storing non-relational data such as user preferences, portfolio metadata, transaction logs, and real-time stock market data.
- Engaged **S3** for storing user-uploaded client reports, financial documents, and portfolio analysis data. Integrated **S3 bucket versioning** for better data management and disaster recovery, reducing the risk of data loss.
- Collaborated in a **Scrum** team, participating in daily stand-ups, sprint planning, and code reviews, ensuring efficient project delivery and continuous improvement.

Software Engineer | Capgemini, India   **Feb 2020 – Aug 2022**

- Established the core functionality of a **Customer Relationship Management (CRM) System**, architecting **microservices** to manage customer interactions, service requests, and order processing.
- Refined **complex SQL queries using PostgreSQL's powerful window functions and CTEs (Common Table Expressions)** to generate real-time reports on customer interactions, and order statuses, improving report generation speed by **30%** and reducing database load during peak hours.
- Leveraged **Spring Boot's dependency injection (DI)** and **Inversion of Control (IoC)** to create loosely coupled, testable, and maintainable components, reducing development time by **20%** and improving code quality.
- Incorporated **JavaScript** for interactive content rendering, including client-side form validation, customer search functionalities, and asynchronous data updates from the backend via **AJAX** which improved page load times and enhanced real-time interactivity.
- Configured **SSL/TLS handshake** protocols to establish a secure communication channel, validating server certificates to prevent unauthorized access and ensuring that all connections to the CRM system were authenticated and encrypted.
- Created a **component-based architecture in React**, allowing for reusable UI components such as customer cards, order forms, and service request tables, significantly improving development efficiency by **40%** and reducing code duplication by **50%**.
- Engaged **JSON** as the data format for API communication, ensuring lightweight, fast, and consistent data serialization and deserialization between the CRM system's front-end and backend services.
- Employed **Mockito** to mock dependencies in the **service layer** of the CRM system, allowing for isolated unit testing of business logic and ensuring the correctness of microservices without relying on external resources (Databases or APIs).

Certifications

- Certified AWS Solutions Architect | Certified AWS Cloud Practitioner
- NPTEL Certifications in Java, Python, C | IIT Bombay Spoken Tutorial Certifications in Java, Python, C

Education

Master of Science in Computer Science | Bridgewater State University, MA, USA
Bachelors in Computer Science and Engineering | R.V.R & J.C College of Engineering, India