

# Sruthi Chirumamilla

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## 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

<b>Programming Languages:</b>	C, C#, C++, Python, Java, JavaScript
<b>Front-End Frameworks:</b>	HTML5, CSS3, Bootstrap, UI Material, jQuery, Typescript, ES6, React, Redux, React Hooks, Angular
<b>Back-End Frameworks:</b>	Spring Boot, Spring MVC, Spring Data JPA, Hibernate ORM, Node, Express, Microservices
<b>Database Management:</b>	SQL, MongoDB (NoSQL), PostgreSQL, MySQL, Oracle
<b>Cloud &amp; Deployment:</b>	AWS(EC2, S3, Load Balancer, Lambda, SNS, Cloud Watch), Docker
<b>Other Technologies &amp; Tools:</b>	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

Aug 2024  
Apr 2022