Sreeram Charagundla

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SUMMARY

Software Engineer with 2 years of experience developing **scalable**, **production-grade** applications using **Java**, **Spring Boot**, **Angular**, **AWS**, and the **MEAN/MERN** stack. Adept at **debugging time-sensitive issues**, orchestrating **DevOps pipelines** (CircleCI, Jenkins, SonarQube), and leveraging **containerization** (Docker) to deliver robust solutions. Holds a Master's in Software Engineering and thrives in fast-paced environments, tackling **complex financial** challenges with innovative, **system-focused** designs. Passionate about continuous learning, delivering impactful results, and ensuring exceptional user experiences.

SKILLS

Programming Languages:	Java	C/C++	JavaScript	TypeScript	Python	HTML5	CSS	Bootstrap	SQL	GraphQL
Frameworks/Libraries:	Spring Boot (RESTful, Microservices, Batch)	Express.js	Node.js	Angular	React
Databases/Messaging Queues:	Kafka	RabbitMQ	SQL (Oracle, Postgres, SQL Server)	NoSQL (MongoDB, DynamoDB, Redis)
Technologies/Methodologies:	AWS (EC2, Lambda)	CI/CD (CircleCI, Jenkins)	Docker	Selenium	GIT	JUnit	Scrum	Kubernetes

EDUCATION

Masters in Computer Software Engineering (GPA: 3.8)   Dec 2024
Northeastern University, Boston, MA
Relevant Coursework: Object Oriented Programming, Data Structures and Algorithms, Network Structures & Cloud Computing, Big Data Applications & Indexing Techniques, Design Patterns, Data Modeling and Database Design, Application Engineering and Development.

Bachelors in Computer Science and Engineering (GPA: 3.7)   Nov 2020
GITAM University, Hyderabad, India
Relevant Coursework: Programming with C/C++, Java, DSA, Computer Organization & Architecture, UNIX programming, OS, Computer Networks, Compiler Design, UML Design, Data Mining, Open Source Software Development in Python, Cryptography & Network Security.

WORK EXPERIENCE

Northeastern University, Graduate Teaching Assistant, Boston, MA   May 2023 – Dec 2024
- Led interactive coding sessions for 60+ students, reinforcing **Design Patterns** in Java and multithreading concepts, improving their grasp of **object-oriented best practices**.
- Conducted **technical design reviews** and guided students in writing **scalable**, maintainable code, introducing basic **containerization** workflows (Docker) and **CI/CD** principles for hands-on learning.

Infosys Limited, Software Engineer, Hyderabad, India   Jan 2021 – Dec 2022
Income Tax Portal:
- Engineered a pre-fill module for the Tax Filing Portal, Government of India, serving 950M+ taxpayers; optimized data retrieval using **SQL** via **RESTful APIs** in **JSON** files, reducing filing time, & improving financial management efficiency.
- Developed a personalized tax portal leveraging **Microservices architecture**, **Spring Boot,** and **Hibernate**, enhancing user data accuracy and increasing tax submission efficiency by 30%, while ensuring modular and scalable application design.
- Utilized **Apache Kafka** to transmit data as messages from **Oracle & MS SQL Databases** via a message queue, where messages are produced and consumed by the **Spring boot Application,** thus maintaining consistency and real-time synchronization.
- Designed a **Spring Batch** application processing 10,000 records/min, leveraging **Dynatrace** and **SonarQube** to diagnose performance bottlenecks and ensure code quality.
- Supported the full **SDLC** (requirements to production) following **Scrum**, using **Jenkins** pipelines and **GIT** version control to streamline development, testing, and **debugging**.

Wanderlust Website, **Full Stack Engineer**:
- Orchestrated the development of a responsive travel booking single-page application using **MEAN Stack (MongoDB, Express.js, Angular, Nodejs)**; enhanced user satisfaction, leading to a noticeable increase in bookings.
- Adhered to the **Agile Methodologies** and **Scrum Framework;** proactively resolving technical challenges, performing thorough code reviews, and communicating with cross-disciplinary teams, Product Managers, Business Analysts, and clients.
- Led the development of a **high-performance, fault-tolerant, and scalable** travel booking application, achieving faster response times, and **enabling seamless user interactions** through **Docker**-based container deployments.
- Proposed **Lazy loading** and optimized data handling with **Angular Pipes,** reducing initial load times and enabling seamless rendering of dynamic travel itineraries and booking details; significantly improved interaction speed & application performance.
- Implemented **NgRX state management** to centralize application state, enabling real-time synchronization of user preferences, booking details, and search filters; improved data consistency & user experience during the multi-step booking process.

PROJECTS

- **Scalable Web Application with Real-Time Analytics and Asynchronous Data Processing**
  Implemented a scalable web application using **React**, **Node.js**, **Elasticsearch**, **Redis**, and **RabbitMQ**; incorporated **AWS Lambda** to automate heavy processing tasks and established **OAuth2.0** authentication for secure user flows. Employed **Redux** for state management and Dockerized the services for **rapid** container-based deployment, ensuring thorough **CI/CD** with **CircleCI**.

- **An Operating System Simulation with Process Scheduling and File Management**
  Built an interactive **OS simulation** in **C++** that dynamically responds to users' commands, implementing critical scheduling algorithms such as **Process Scheduling** and **Round Robin** for efficient process management. Integrated **UNIX System calls** and **shell scripting** to enhance functionality, demonstrating proficiency in **algorithm design**, **system programming,** and **resource optimization.**

AWARDS AND ACHIEVEMENTS

- Earned a Certificate of Appreciation (Q3-Sept 2022) at Infosys for demonstrating adaptability, proactively managing tasks, effective communication, problem-solving skills, teamwork, and delivering exceptional results.