Sreeram Charagundla

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SUMMARY

Software Engineer with a Master's in Information Systems and 3+ years of experience developing data-intensive, scalable, high-performance systems across fintech and distributed domains. Skilled in **Java**/**Spring Boot microservices**, **Angular** & **React** front-end, and event-driven architectures with **Kafka**. Experienced in designing API-first solutions, integrating **SQL** as well as **NoSQL** databases, and deploying containerized applications on **AWS** using **Docker** and **Kubernetes**. Passionate about building secure, resilient software that powers large-scale enterprise platforms.

SKILLS

Programming Languages:	Java | C++ | JavaScript | TypeScript
Frontend Technologies:	React | Redux | Angular | NgRX | HTML5 | CSS3 | responsive web design
Backend Technologies:	Spring Boot | Spring Batch | Node.js/Express | RESTful API Design
Data & Messaging:	Kafka | RabbitMQ | SQL (Oracle, MS SQL) | NoSQL (MongoDB, Redis)
Open-Source Stacks:	Maven | Tomcat | Junit | Spring ecosystem
Cloud & DevOps:	AWS | Docker | Kubernetes | CI/CD (Jenkins, Azure DevOps, GitHub Actions)
Development Methodologies:	Agile/Scrum | cross-functional teams | code reviews | TDD | Test automation

WORK EXPERIENCE

Northeastern University | Teaching Assistant | Boston, MA
May 2023 – Dec 2024

Course – Design Patterns using Java

- Led weekly coding labs for 60+ students, teaching OO principles, multithreading, and 20+ GoF design patterns, resulting in a **25 % increase in project code quality** based on grading rubrics.
- **Mentored** student teams through agile project cycles, conducting targeted **code reviews** and **debugging sessions** that improved delivery speed and **reduced defect counts**.

Infosys | Software Engineer | Hyderabad, India
Jan 2021 – Dec 2022

Project – Income Tax Portal

- **Engineered a pre-fill module** for India's national Income Tax Portal serving **950M+ users**, automating taxpayer data preparation using **Java**, **Spring Boot**, **Kafka**, and **JSON schema mapping**.
- Implemented **real-time DB to Kafka synchronization** to push updates with sub-second latency; improved data freshness SLAs from minutes to **under seconds**.
- Contributed to modularizing core services into independent Spring Boot microservices and leveraged Kafka partitioning and replication strategies to enable **horizontal scaling** and **fault isolation**, ensuring reliable throughput during national-level traffic spikes in peak filing seasons.
- Built a **Spring Batch Application** integrating independent applications through **API Integration** to securely decrypt and transform tax data into structured JSON, **cutting manual processing time.**
- Strengthened reliability with **unit, integration, and regression test suites,** achieving **85 %+ coverage**, preventing regressions across distributed modules.
- Resolved high-severity production incidents affecting millions by reproducing issues in lower environments, performing **RCA**, and shipping hotfixes that **reduced incident resolution time.**
- Partnered with QA, analysts, and product teams using Jira and Confluence; **Dynatrace** for log analytics and performance evaluation, alongside **SonarQube** for maintaining code quality standards.

Project- Wanderlust (MEAN Stack Application)

- Developed and deployed a single-page travel-booking application using **Angular** (TypeScript), NgRX state management, and **Node.js**/**Express** backend, with lazy-loading modules to improve front-end load time.
- Designed **MongoDB** collections with **JSON Schema validation for users**, destinations, and bookings, and secured the stack via **OAuth2.0** login and **JWT auth tokens**.
- Built **RESTful Express APIs** with modular routing, middleware validation/authentication, and integrated external travel APIs through a backend proxy to merge external data with internal storage.
- Delivered features in **iterative sprints**, collaborating with UX designers and QA engineers in a **Scrum** workstyle; tracked progress in **JIRA** and **Confluence**, and used **Jenkins CI/CD pipelines** for deployments.

CAPSTONE PROJECT

Distributed Patient Record Platform for Asynchronous Data Processing
Jan 2024 – Apr 2024

- Designed and implemented a distributed web application with **Spring Boot** backend and **React** front-end for a secure, scalable patient-record system; adopted **API first architecture** via **REST**.
- Integrated **RabbitMQ** for asynchronous inter-service messaging and **Spring Data Redis** for caching to improve **throughput** and **reduce response latency** under **high concurrency**.
- Employed Spring Security with **OAuth2.0** for secure **authentication**/**authorization** across microservices and user flows.
- Utilized **Spring Data Elasticsearch** for millisecond-level search and filtering over structured data, enabling real-time querying and analytics at scale.
- Adopted **CI/CD** pipelines and containerized deployment using **Docker** & **Kubernetes** on **AWS**, establishing automated **build -> test -> deploy workflows** to ensure resilience and reproducibility of the system

EDUCATION

Master's in Information Systems (GPA: 3.8)

Northeastern University, Boston, MA

Bachelor's in Computer Science and Engineering (GPA: 3.7)

GITAM University, Hyderabad, India