SHRIRAM VENKATASUBRAMANIAN IYER

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SENIOR SOFTWARE ENGINEER | FULL-STACK DEVELOPMENT | JAVA, SPRING BOOT, KAFKA, AWS, MICROSERVICES, REAL-TIME SYSTEMS

Detail-oriented Senior Software Engineer with 3.1 years of experience in Full-Stack Development. Proficient in Java, Spring Boot, Node.js, React.js, Kafka, WebSocket, and AWS. Expertise in designing scalable, event-driven architectures and building real-time applications with high throughput. Proven track record in leading teams, mentoring junior developers, and driving successful projects, including the delivery of a real-time collaborative logistics webapp. Skilled in microservices, CI/CD, Agile methodologies, and performance optimization, with a focus on reducing latency and improving system scalability. Strong experience in cloud infrastructure (AWS) and data streaming with Kafka. Adept at driving continuous improvement and innovative system design to meet business goals.

CORE ACUMEN

- **System Design:** Expertise in designing scalable, event-driven architectures using Kafka and Spring Boot.
- **Full-Stack Development**: Adept at both frontend (React.js, Redux, Material-UI) and backend (Java, Spring Boot, Node.js) development.
- **Cloud Infrastructure:** Hands-on experience with AWS services (EC2, Lambda, S3, ECS, CloudWatch) and optimizing cloud infrastructure.
- **Real-Time Processing**: Experience building real-time applications using Kafka Streams and WebSockets.
- **Agile Methodology:** Proficient in Agile methodologies (Scrum), delivering high-quality products in iterative cycles.
- **Collaboration & Leadership:** Proven track record in leading teams and mentoring junior developers, improving team velocity and productivity.
- **Automation & CI/CD:** Extensive use of GitHub Actions for continuous integration and deployment pipelines, reducing deployment cycles.
- **Performance Optimization**: Focus on optimizing system performance (e.g., reducing latency, enhancing scalability) and ensuring uptime (e.g., 99.9% uptime via CloudWatch monitoring).

TECHNICAL ACUMEN

- **Programming Languages:** Java (Java 8), Python, JavaScript, TypeScript, Node.js
- **Backend Development:** Spring Boot, Microservices, Spring Cloud, Spring Security, Spring Data JPA
- **Frontend Development:** React.js, Redux, Material-UI, Bootstrap, HTML, CSS
- **API Development & Tools**: REST APIs, Swagger, Postman, AsyncAPI
- **Databases:** MySQL, Oracle, PostgreSQL, MongoDB, Redis
- **Version Control & Project Management:** Git, Jira, Zoho Projects
- **IDEs & Operating Systems**: IntelliJ IDEA, Eclipse, Spring Tool Suite (STS), VS Code, Windows, Linux
- **Cloud & DevOps:** AWS (EC2, Lambda, API Gateway, Cognito, S3, MSK, ElastiCache, ECS, ALB, CloudWatch), Docker, CI/CD (GitHub Actions)
- **Event Streaming & Real-Time Processing**: Apache Kafka, Kafka Streams, Kafka Connect, Schema Registry, Avro, WebSockets, Apache Flink
- **Other Skills:** Agile (Scrum), JSON, Machine Learning

EDUCATIONAL BRIEF

- **Master of Computer Applications (MCA)**
  Shanmugha Arts, Science, Technology & Research Academy (SASTRA) | Thanjavur | 2020 - 2022

CERTIFICATION

- Data Streaming Engineer | Confluent | Issued: Aug 2025 | Expires: Aug 2027
  Credential ID: 157911088 | Skills: Apache Kafka
- Confluent Fundamentals Accreditation | Confluent | Issued: Feb 2025
  Credential ID: 133790505 | Skills: Apache Kafka
- Apache Kafka Streams | Udemy | Issued: Nov 2023 | Skills: Apache Kafka
- Apache Kafka | Udemy | Issued: Aug 2023 | Skills: Apache Kafka
- Web Development | Udemy | Issued: Sep 2022 | Skills: Web Development

EMPLOYMENT CHRONICLE

Unifo Private Limited, Chennai

Module Lead | April 2024 - Present

Key Responsibilities

- Led a cross-functional team to deliver a real-time web application using Java, Spring Boot, and Kafka, processing 500K+ events/sec, reducing processing latency by 20% and operational overhead by 5 hours/week.
- Directed integration of WebSocket-enabled features for Node.js and Java backends, including advanced remote digital signing, job locking, and request signing workflows, improving collaborative efficiency by 30% in multi-user customs filing scenarios.
- Mentored junior developers in FullStack practices (Java, Spring Boot, React.js, Node.js), driving 25% acceleration in sprint velocity and promoting expertise in real-time logistics solutions.

- Deployed Java-based microservices on AWS (EC2, Lambda, ECS) to handle 40% user growth, reducing infrastructure costs by 15% via auto-scaling and optimizing cloud resources.
- Led the development of dashboard analytics for import/export documentation using Java APIs and React.js frontends, enabling real-time insights into logistics metrics.
- Ensured 99.9% uptime for 12+ Spring Boot and Node.js services via CloudWatch monitoring and implemented Playwright automation for end-to-end FullStack testing, improving test coverage and reliability.
- Spearheaded microservices migration to Java-centric architecture, reducing deployment cycles and improving scalability for a logistics platform serving customs house brokers.

Software Engineer | Aug 2022 - March 2024

- Developed and optimized React.js frontend features for a logistics webapp, utilizing Redux and Material-UI to enhance the user experience and streamline customs documentation workflows for ICEGATE site submissions.
- Contributed to backend development using Java and Spring Boot for event-driven, real-time updates, eliminating save buttons by leveraging event-driven architecture for seamless database synchronization.
- Integrated WebSocket protocols with Node.js for collaborative features such as remote digital signatures, reducing document signing delays by 40% in multi-user logistics teams.
- Implemented Job Lock mechanism with Java backend logic and WebSocket notifications in Node.js, ensuring data integrity and preventing concurrent edits on shared documents.
- Designed Request Sign feature using Spring Boot and WebSocket channels, enabling secure, remote document approval processes and streamlining customs brokerage workflows.
- Achieved 90% test coverage with Playwright automation, reducing post-release defects by 25% and increasing overall test efficiency.
- Assisted in the POC for Kafka-based high-throughput event streaming, laying the foundation for scalable real-time data flows in logistics documentation.

PROJECTS

Unifo Private Limited, Chennai | Project Duration: August 2022 – Present
Client: Internal (Logistics and Customs Brokerage Domain) | Project: Real-Time Collaborative Logistics Webapp

- **Roles and Responsibilities:**
- Led and managed two development teams to drive end-to-end design and development of a real-time logistics webapp, ensuring code quality and on-time delivery.
- Pioneered the implementation of Java, Spring Boot, and Kafka event streaming, processing 500K+ events/sec for auto-populated fields and real-time MongoDB sync, reducing manual saves and cutting latency by 20%.
- Architected event-driven systems with Java/Spring Boot, triggering immediate API updates to eliminate save buttons and enable seamless real-time collaboration in high-throughput workflows.
- Designed Request Sign features using Spring Boot services and WebSocket channels in Node.js, queuing remote approvals for key holders, streamlining the customs brokerage cycle by 40%.
- Developed a Job Lock mechanism using Java backend logic and WebSocket notifications in Node.js, preventing concurrent edits on shared forms and enhancing data integrity in documentation processes.
- Built collaborative WebSocket-enabled features for remote digital signing in Java/Spring Boot backends, boosting multi-user efficiency by 30% in filing scenarios.
- Directed the development of dashboard analytics using Spring Boot APIs for data aggregation and React.js frontends, delivering real-time insights into import/export metrics and cutting operational overhead by 5 hours/week.
- Optimized Java-centric microservices on AWS (EC2, Lambda, ECS) with auto-scaling, handling 40% user growth while cutting infrastructure costs by 15% and ensuring 99.9% uptime via CloudWatch.
- Contributed to the initial POC for real-time architecture using Java/Spring Boot with Kafka Streams, laying scalable data flow foundations and reducing deployment cycles by 50% through GitHub Actions CI/CD.