

# SHRIRAM VENKATASUBRAMANIAN IYER

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## SENIOR SOFTWARE ENGINEER | FULL-STACK DEVELOPMENT | NODE.JS, REACT.JS, MONGODB, KAFKA, AWS, JAVA (KAFKA INTEGRATION), REAL-TIME SYSTEMS

Detailed-oriented Senior Software Engineer with 3.2 years of experience in Full-Stack Development in a fast-paced startup environment. Proficient in Node.js, React.js, MongoDB, Kafka, WebSocket, and AWS. Expertise in designing scalable, event-driven architectures and building real-time applications with high throughput. Proven track record in leading small teams, mentoring junior developers, and owning end-to-end delivery of a real-time collaborative logistics webapp. Skilled in microservices, CI/CD, performance optimization, and cloud infrastructure, with a focus on reducing latency and improving scalability. Strong experience in Kafka event streaming with Java/Spring Boot producers. Adept at driving rapid iteration, ownership, and innovative system design to meet business goals.

### CORE ACUMEN

- **System Design:** Expertise in designing scalable, event-driven architectures using **Kafka and Node.js**, with **Java/Spring Boot for Kafka event production**.
- **Full-Stack Development:** End-to-end ownership of frontend (**React.js, Redux, Material-UI**) and backend (**Node.js, MongoDB**) development.
- **Cloud Infrastructure:** Hands-on experience with AWS services (EC2, Lambda, S3, ECS, CloudWatch) and optimizing cloud resources.
- **Real-Time Processing:** Experience building real-time applications using **Kafka Streams and WebSockets**.
- **Startup Delivery:** Proven ability to ship high-quality features in rapid, iterative cycles with full ownership.
- **Collaboration & Leadership:** Led small teams and mentored junior developers, improving velocity and code quality in fast-moving environments.
- **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:** JavaScript, TypeScript, Node.js, Python, **Java (Kafka Integration)**
- **Backend Development:** Node.js, Microservices, Mongoose, JWT, MongoDB Aggregation
- **Kafka Integration:** Java, Spring Boot (Producers/Consumers), Kafka Streams, Kafka Connect, Schema Registry, Avro
- **Frontend Development:** React.js, Redux, Material-UI, Bootstrap, HTML, CSS
- **API Development & Tools:** REST APIs, Swagger, Postman, AsyncAPI
- **Databases:** MongoDB, Redis, MySQL, PostgreSQL
- **Version Control & Project Management:** Git, Jira, Zoho Projects
- **IDEs & Operating Systems:** VS Code, IntelliJ IDEA, 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, WebSockets, Apache Flink
- **Other Skills:** JSON, AJV

### EDUCATIONAL BRIEF

- **Master of Computer Applications (MCA)**  
Shanmugha Arts, Science, Technology & Research Academy (ASTRA) | 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 **Node.js and Kafka**, with **Java/Spring Boot producing 500K+ events/sec**, reducing processing latency by 20% and operational overhead by 5 hours/week.
- Directed integration of WebSocket-enabled features in **Node.js 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 (**Node.js, React.js, MongoDB**), driving 25% faster feature delivery and promoting expertise in real-time logistics solutions.
- Deployed **Node.js-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 **Node.js APIs and React.js frontends**, enabling real-time insights into logistics metrics.
- Ensured 99.9% uptime for 12+ **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 **Node.js-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 Node.js 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 Node.js backend logic and WebSocket notifications, ensuring data integrity and preventing concurrent edits on shared documents.
- Designed Request Sign feature using Node.js services 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, using Java/Spring Boot producers to lay 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 **Node.js and Kafka event streaming**, with **Java/Spring Boot producing 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 **Node.js**, triggering immediate API updates to eliminate save buttons and enable seamless real-time collaboration in high-throughput workflows.
- Designed **Request Sign features** using **Node.js services and WebSocket channels**, queuing remote approvals for key holders, streamlining the customs brokerage cycle by 40%.
- Developed a **Job Lock mechanism** using **Node.js backend logic and WebSocket notifications**, preventing concurrent edits on shared forms and enhancing data integrity in documentation processes.
- Built collaborative WebSocket-enabled features for remote digital signing in **Node.js backends**, boosting multi-user efficiency by 30% in filing scenarios.
- Directed the development of dashboard analytics using **Node.js 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 **Node.js-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 **Node.js with Kafka Streams**, powered by **Java/Spring Boot event producers**, laying scalable data flow foundations and reducing deployment cycles by 50% through GitHub Actions CI/CD.