

# Jayaraman Venkatesan

8572049241 | [jayaramanvenkatesan98@gmail.com](mailto:jayaramanvenkatesan98@gmail.com) | [linkedin.com/in/jayaraman-venkatesan](https://www.linkedin.com/in/jayaraman-venkatesan) | [jayaraman-venkatesan.github.io/](https://jayaraman-venkatesan.github.io/)

## EXPERIENCE

### Flagstar Bank | Software Development Engineer

May 2024 – Present

*Java, Spring boot, Microservices, AWS, ECS, React, Apache Kafka*

- Developed an insights management microservice using Spring Boot and Apache Kafka to track and audit over 20 microservices running in AWS Fargate, improving operational visibility by 30%
- Built a full-stack web application for loan servicing for 1.3 million+ users using React with a micro-frontend architecture and Redux for state management, resulting in a 25% reduction in user processing time

### SupplyTrace | Software Development Engineer

May 2023 – May 2024

*Python, Javascript, React, Data Analytics, Docker*

- Spearheaded the development of a supply chain application using ReactJS and Django(Python) under Professor Dr.Shawn Bhimani to identify forced labor within network of 100,000+ companies
- Executed high-performance geospatial analysis using Python and Apache airflow, successfully completing entity resolution tasks on a 10 million-row shipment dataset, improving data accuracy by 35%

### Visa inc | Software Development Engineer

May 2020 – Jul 2022

*Java, Spring boot, Angular, Typescript, Docker, AMQ*

- Designed and developed a global billing platform utilized by over 14,000 financial institutions worldwide using Angular and Spring boot, contributing to 33% of Visa's revenue
- Developed batch processing microservice for validation of 1M+ metrics with Spring batch(Java) and ActiveMQ, reducing effort of ~15hrs for 100k+ banks in each quarter
- Modeled a comprehensive dashboard using Angular, integrating 50+ employee performance metrics for 28K+ employees throughout the world
- Implemented Jenkins pipelines for CI/CD, cutting deployment time by 50% and streamlining workflows
- Containerized 20+ microservices using Docker, improving deployment speed and enhancing system efficiency

### Visa inc | Software Development Engineer Intern

May 2019 – Jul 2019

*Java, Apache Mahout, Angular, AEM*

- Enhanced collaborative filtering algorithms using Apache Mahout(Java), resulting in a 20% improvement in recommendation accuracy, and provided optimized tool and job suggestions to 28k+ Visa employees using Google Analytics clickstream data.

## PROJECTS

### Event Notification System | *Java, Apache Kafka, AWS, MySQL*

- Engineered a MySQL Change Data Capture (CDC) solution leveraging Binlog parsing

### Come Sell with me | *React, MongoDB, NodeJS, ExpressJS, Git*

- Incorporated a multi-tier architecture and microservices to build a scalable, fault-tolerant system with a latency of 70ms

### Automatic attendance management system | *Python, OpenCV, YOLO, Git*

- Built Raspberry Pi-based automated attendance system using YOLO Object Detector with 95% accuracy

## TECHNICAL SKILLS

### Languages

Java, Python, C#, JavaScript, TypeScript, SQL, HTML/CSS

### Frameworks

Spring Boot, Django, React, NodeJS, Redux, Bootstrap, MVC, jQuery, JUnit, Angular

### Technologies and Tools

Docker, Git, AWS, Maven, Azure, CI/CD, Jira

## EDUCATION

### Northeastern University

Boston, MA

*Master of Science in Computer Science*

*Aug 2022 – May 2024*