

# Jayaraman Venkatesan

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## EXPERIENCE

### Software Development Engineer

May 2024 – Present

*Flagstar Bank* | Java, Spring boot, Microservices, AWS, ECS, React, Apache Kafka

*Troy, MI*

- 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

### Software Developer - SupplyTrace ( Research )

May 2023 – May 2024

*Northeastern University* | Python, Javascript, React, Data Analytics, Docker

*Boston, MA*

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

### Software Development Engineer - Engineering Apps and Analytics

May 2020 – July 2022

*Visa inc* | Java, Spring boot, Angular, Typescript, HDFS, AMQ

*Bengaluru, India*

- Implemented real-time data validation microservice with Spring Batch and ActiveMQ for 100K+ metrics, reducing processing time by 40%
- Developed Angular based frontend components for fee reporting and certifying over 50,000 banks globally under Visa
- Contributed to the development of a proprietary data lake on HDFS, enabling efficient processing of over 100 terabytes of unstructured data annually

### Software Development Engineer Intern - Digital Marketing Experience

May 2019 – Jul 2019

*Visa inc* | Java, Apache Mahout, Angular, AEM

*Bengaluru, India*

- Evaluated collaborative filtering algorithms in Apache Mahout, recommending optimized tools and job suggestions to Visa employees from Google Analytics clickstream data
- Developed personalized job suggestion pages for employees using Angular and Adobe Experience Manager (AEM)

## PROJECTS

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

- Engineered a MySQL Change Data Capture (CDC) solution leveraging Binlog parsing
- Added Kafka integration within a Java Spring Boot framework, enabling real-time event notifications

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

- Built a full-stack online marketplace website that supports buyer, seller and admin user roles.

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

- Built a Raspberry Pi-based automated attendance system using YOLO Object Detector for face recognition, achieving 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*

### Anna University

Chennai, India

*Bachelor of Engineering in Computer Science*

*Aug. 2016 – May 2020*