

## MICHAEL LASSO

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### SUMMARY

Seasoned technology leader with 10+ years of experience architecting and delivering enterprise-scale applications in financial services. Proven record of leading cross-functional teams to build secure, high-performance full stack solutions in Java, Python, React, and AWS. Deep expertise in AI/ML, Generative AI, Retrieval-Augmented Generation (RAG), and distributed systems, with a strong focus on emerging technologies, developer enablement, and innovation.

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### SKILLS

**Programming & Full Stack:** Java (Spring Boot), Python (Flask), React/TypeScript, Node.js

**AI/GenAI:** LLMs, RAG, NLP, OpenAI, Vector Databases, Knowledge Graphs

**Data & Integration:** SQL, MongoDB, Elasticsearch, Kafka, Microservices, Redis

**Leadership & Practices:** Agile, DevSecOps, Distributed Systems, Technical Mentorship

**Cloud & DevSecOps:** AWS (Certified SAA), Terraform, Docker, Kubernetes, CI/CD, Security (Keycloak, API Gateway)

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### EXPERIENCE

#### JPMorgan & Chase, Jersey City, NJ

##### Senior Lead Software Engineer, JAN 2025 - Present

- Currently leading the development of applications leveraging Large Language Models (LLMs) to address intricate legal challenges effectively
- Designed and deployed a scalable Retrieval-Augmented Generation (RAG) system integrated with LLMs to enhance contract understanding and user query resolution in legal workflows
- Built a serverless AI/ML pipeline on AWS (using Lambda, Step Functions, S3, and PostgreSQL) to process and enrich large batches of legal records daily, achieving high throughput with low operational overhead
- Developed an API gateway strategy using Springboot API Gateway and Redis to intelligently route and balance high-volume LLM requests across multiple inference endpoints
- Providing technical oversight across multiple projects, ensuring delivery aligns with enterprise architecture and budget

#### JPMorgan & Chase, Jersey City, NJ

##### Lead Software Engineer, APR 2019 - DEC 2025

###### Projects:

**Knowledge Management** is a microservice application that involves identifying, capturing, curating and sharing information assets across Legal. It is a transformative program for the Legal department to ensure that knowledge is easily shareable and accessible to everyone.

**Legal Data Central** is an application for collecting and storing legal reference data. A central repository to better serve internal applications through REST APIs.

- 2022 Systems and methods for automated document graphing – Patent# 11449676
- Collaborated with stakeholders to inspire an increase in user engagement via rapid prototype development with React and SpringBoot
- Led a cross regional team of 12 developers to deliver the Knowledge Management function within the Legal department
- Developed a rule engine with Elasticsearch that generates a personalized RSS feed for each user

- Led the development of the keyword extraction initiative. Achieved a 60% extraction rate by executing NLP approaches
- Responsible for integrating AWS comprehend, S3, and other AWS services into the Knowledge Management infrastructure
- Introduced event driven micro-services with Kafka, and reduced application cost by leading the implementation of serverless functions

### **InRhythm. NYC, NY**

**Client: Goldman Sachs**

**Senior Software Engineer, SEP 2018 - APR 2019**

- Developed and implemented a customer feedback microservice
- Extended and improved functionality to existing microservices
- Collaborated with architects in the design of new functionality to the Marcus lending platform

### **SGA. NYC, NY**

**Client: JPMorgan & Chase**

**Software Developer, OCT 2017 - SEP 2018**

- Research and Develop applications with machine learning components to support the legal department
- Responsible for the design of data models, and development of REST APIs
- Developed Spark infrastructure to process large sets of documents

### **New York Stock Exchange. NYC, NY**

**Software Developer, JAN 2016 - OCT 2017**

**Develop real time surveillances as part of the regulation team**

- Developed an internal application dashboard to display each surveillance progress
- Employed Spark, Shell scripts, and queries to process trade engine data and find NMS violations
- Developed a framework to automate the migration of SQL files from Netezza to Spark

### **TECH USA. Downingtown, PA**

**Client: Comcast**

**Junior Software Developer, JAN 2015 - DEC 2015**

**Project: B4B Business Service Administration** is a multi-tier application developed for Comcast internal employees. The goal is to provide a consolidated user interface, that allows users to monitor test executions throughout the software development cycle with Continuous Integration and testing.

- Designed and developed multiple JSF pages, with AJAX abilities to display Jenkins data
- Consolidated several Jenkins instances which allowed easy management of jobs through the platform
- Integrated Keycloak APIs to secure the application and collect/log data from users

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### **EDUCATION**

Manhattanville College, Purchase NY, DEC 2014

Computer Science