

Marrio Jovin Jeyakumar

US Permanent Resident | Boston, MA | 508-329-2213 | marriojeyakumar123@gmail.com | linkedin.com/in/marriojeyakumar

EDUCATION

Worcester Polytechnic Institute

Expected Dec. 2027

B.S. in Computer Science

Worcester, MA

- **Awards & Honors:** US Presidential Scholar State Nominee, USA Computing Olympiad Gold, ACSL Finalist

WORK EXPERIENCE

ServisBOT - Software Engineer Intern

Jun. 2025 – Aug. 2025

Cloud AI Integration

Boston, MA

- Created a Dockerized RAG Chat bot storing **100k+** daily transcripts in a PostgreSQL vector database to target high-risk customer signals; successfully demoed to enterprise clients, including SoFi.
- Achieved **121%** faster inference and **95%** lower per-token cost by migrating to AWS Bedrock LLM.
- Built multi-stage prompting workflows to improve mortgage call accuracy from **65%** to **90%** through transcript cleaning, PII redaction, and post-processing of call data.
- Deployed an automated LLM evaluation framework that generated and graded **1,000+** IVA test scenarios in minutes, replacing manual QA calls with scalable prompt-based testing.

Rebind AI - Software Engineer Intern

Jun. 2024 – Aug. 2024

RAG & NLP Engineering Platforms

Boston, MA

- Architected a retrieval-augmented-generation query processor to enhance chatbot response relevance by **22%** by translating user inputs into Neo4j graph queries and ingesting **35,000+** entity vector embeddings.
- Minimized vector-embedding errors by **34%** via implementing FAISS ETL tests for similarity-based checks.
- Automated QA coverage for **100+** device configs with BrowserStack tests in Github Actions CI/CD pipeline.
- Reduced similarity-score outliers to less than **10%** by broadening cosine similarity score distribution by **0.5** using Hugging Face embeddings stored in Redis.

Furbaby Bestie - Software Engineer Intern

Nov. 2023 – Aug. 2024

iOS & Android App Development

Los Angeles, CA

- Delivered MVP for a full-stack pet care app with a Java/XML front-end and SSH-secured user authentication.
- Overhauled a local SQL database to a cloud database through Google Firebase, migrating **10,000+** records and improving data synchronization speed by **57%**.
- Streamlined development process and completed features **25%** ahead of schedule by engaging in agile daily scrum meetings and spearheading weekly sprints.

PROJECTS

Taksis

Jun. 2024 – Mar. 2025

St. Philopateer and St. Mina Coptic Orthodox Church

React Native, Google Cloud Platform

- Designed automatic scheduling application for **2500+** users across multiple churches, reducing manual effort by **~80%** with a custom python heuristic algorithm for fair selection.
- Developed Expo/React Native UI for an attendance tracking system for **400+** students and **20+** teachers to reduce reporting time by **77%**, and incorporated Google Cloud Platform functions for live updates.
- Increased user satisfaction by **32%** by incorporating feedback after launching to the iOS App Store and Google Play Store, implementing **20+** feature enhancements and fixing **15+** bugs.

Membership Detection

Jan. 2023 – Mar. 2023

GitHub

AI, Python, Data Preprocessing

- Engineered an AI clothing-detection model to validate membership without using facial data, achieving **80%** accuracy through training via a supervised learning ML algorithm.
- Optimized computer-vision pipeline's accuracy, resulting in boosting mean average precision to **85.1%** by condensing the training dataset from **50+** to **5** classes of clothes.
- Launched model in real-time with **<60ms** latency by utilizing Frigate NVR.

TECHNICAL SKILLS

Languages: Python, Java, C++, C#, Go, JavaScript, TypeScript, SQL, Bash, JSON, HTML/CSS, R

Frameworks & Libraries: React, Next.js, Django, Flask, TensorFlow, PyTorch, NumPy, Pandas, SciPy, FAISS, LangChain

Technologies/Tools: Git, CI/CD, Unix/Linux, Docker, PostgreSQL, Pytest, AWS S3, Firebase, EC2, Selenium, Redis

Methodologies: Agile Methodology, Test-driven Development, Object-Oriented Programming