

Meena Nagarajan

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EDUCATION

Georgia Institute of Technology

M.S. in Computer Science (Specialization: Machine Learning)

B.S. in Computer Science (Specialization: AI and HCI)

Atlanta, GA

Jan 2024 - Dec 2024

Aug 2021 - Dec 2023

EXPERIENCE

Reframe (Atlanta, GA)

Jul 2025 - Present

Product Engineer - Ultra Team

- Contributed to Reframe's **Ultra coaching platform**, a suite of dashboards that enable coaches to track client health metrics, generate daily plans, manage 1-1 sessions, & monitor outcomes to improve engagement & results.
- Engineered and optimized multiple different dashboards using **React**, **TypeScript**, **React Query**, and **Tailwind CSS**, improving page responsiveness and reducing dashboard load times by **35%**.
- Built backend integrations with **NestJS + PostgreSQL** and connected services like **AWS S3**, **Stream Video/Chat**, and **Stripe** to support secure data pipelines and enable frictionless coaching workflows.

L&T Technology Services (Dallas, TX)

Feb 2025 - Jul 2025

Full Stack Development Intern

- Spearheaded modernization of L&T's internal administrative application as a full-stack engineer by integrating **Azure AD-based authentication** around the existing custom login system to enhance security and prevent vulnerabilities such as phishing, token replay, and unauthorized access; designed and implemented **role-based access control** from scratch to eliminate shared admin credentials and enforce granular, module-level access.
- Led the database migration from **Oracle SQL** to **PostgreSQL**, collaborated with cross-functional onshore/offshore teams for feature development and troubleshooting, and served as the **primary point of contact** for client support, implementing fixes and enhancements based on user feedback to ensure high availability and satisfaction.

Siemens Digital Industries Software (Huntsville, AL)

Jan 2023 - Aug 2024

Software Engineering Intern - EDM Infrastructure & Expedition Layout

- Designed a **web-based database management server** and orchestrated **automated performance tests** for **600** concurrent client applications, increasing efficiency by **30%**; engineered Python-based solutions for data-driven decision-making and load generator management, boosting load allocation efficiency by **400%**.
- Designed and implemented **automated pipelines** enhancing Siemens' PCB design tool for external customers through advanced Python-based automation; developed **ANTLR**-based scripts to automate **1000+** VBScript to Python codebase conversions, optimizing foundational libraries and translating processes for future code branches.

PROJECTS

American Sign Language Detection Model | *Deep Learning, Encoder-Decoder, Transformer models*

- * Built a CNN-based encoder-decoder model with OpenPose keypoint extraction and fine-tuned mBART-large-cc25 for ASL-to-gloss prediction, achieving **12.3%** accuracy improvement over the baseline.

Disaggregated Large Language Model Scheduling | *Python, Simulation, GPU Optimization*

- * Implemented a disaggregated scheduler in Vidur with optimized KV cache transfer to decouple prefill and decoding tasks, reducing end-to-end latency by **32%** and improving throughput by **16%**.

Personalized Music Recommendation System | *Python, React, Node.js, Machine Learning*

- * Created a personalized music recommendation system using K-means, BIRCH, Agglomerative Clustering, and GMM to cluster 1.2M songs and recommend top-k tracks based on user habits.

TECHNICAL SKILLS

Machine Learning & AI: Deep Learning, Computer Vision, Transfer Learning, Model Optimization, Anomaly Detection, Model Evaluation, Feature Engineering

Programming: Python, C++, Java, JavaScript/TypeScript, SQL, Bash, Git

Libraries & Frameworks: TensorFlow, PyTorch, Scikit-learn, OpenCV, Pandas, NumPy, Matplotlib, ANTLR

Full-Stack & Web: React, Next.js, NestJS, Vite, React Query, Tailwind CSS, Prisma, Docker

Cloud & Services: AWS (S3, SES, Amplify), Stream Video/Chat API, Stripe, Google APIs (OAuth)

Databases: PostgreSQL, GraphQL, Oracle SQL, MySQL