

Houston, TX 77030

SUMMARY

A former GenAI Team Lead with proven business results, promoted from Intern to Team Lead within a year after my work helped double the B2B client base. I built key product features including **Agentic AI Systems**, **Advanced RAG**, and **Backend infrastructure**, leading to **two** major industry awards. Now pursuing a Master of Computer Science at Rice University.

EDUCATION

Rice University - Top 20 U.S. University

M.C.S., Computer Science

Aug. 2025 - Dec. 2026 (Expected)

Houston, TX

National Yang Ming Chiao Tung University (NYCU) - Top 3 Taiwan University

B.S., Industrial Engineering and Management (GPA: 4.07/4.30)

Minor: Computer Science (Domain GPA: 4.13/4.30)

Sep. 2020 - Jun. 2024

Hsinchu, Taiwan

WORK EXPERIENCE

GenAl Team Lead Sep. 2024 – Aug. 2025

MaiAgent Co., Ltd. - Award-Winning B2B GenAl Startup

Taipei, Taiwan

- Building Al Agents Upgraded chatbots into Al agents by integrating memory systems, tool APIs, and MCP Client, resulting in 120% partner growth (CTBC Bank, MSI, HPE, iGroup) and 567% user expansion (3K to 20K users) while cutting LLM token usage by 67%+
- Scaling Advanced RAG Refactored RAG (Retrieval-Augmented Generation) architecture with async framework and dual-database synchronization (RDB/Vector DB), enabling tag-based filtering and multi-knowledge base management; scaled the system from **3M** to **20M+** text chunks while maintaining API response times and **doubling** indexing performance
- Contributing to Open Source Contributed 14 merged pull requests to the LlamaIndex open-source project, fixing bugs and adding features in integrations with AWS Bedrock, Claude, Elasticsearch, Cohere, OpenAI, MCP Client, PostgreSQL, and AI Agent Workflow
- **Testing Framework** Introduced pytest testing framework for unit and E2E coverage to prevent production regressions, achieving **67%** test coverage from **zero** baseline, which reduced production hotfixes by **90%** initially and sustaining a **50%** reduction long term

PROJECTS

Agentic Hybrid RAG | Graph RAG (Neo4j, Cypher), Vector RAG (Milvus), Multi-Agent (LangGraph)

Feb. 2024 - Aug. 2024

- Implemented a query classification agentic AI system that picks a global or local approach to request slicing from Graph RAG, Vector RAG (hybrid embedding search) or a Hybrid (Graph & Vector) RAG path to answer the contextual or detail-oriented queries
- Used ML clustering algorithms (K-means and DBSCAN) to recognize pivotal nodes of the vector database, and built a low-cost Graph RAG; saved 35% of semantic graph indexing token cost, with only 2.56% worse on average in RAGAS metrics
- Enhanced vector RAG hit rate using data retrieved from Graph RAG with HyDE, balancing both global and detailed information for more accurate responses. Achieved an MAR@10 of 88.2% on multi-hop datasets

GenAl Tutoring System with Multi-Agent RAG | LangChain, CrewAl, Streamlit, Chroma

Feb. 2024 - Jul. 2024

- · Enabled user tuning of LLM settings and inspection of chain-of-thought from ReAct Agent and fetched chunks by Streamlit
- Used CrewAI to assign roles to LLMs for collaborative problem-solving, assisting students with problem-solving, exam detection, concept analysis, and compared open-source LLMs (Llama 3) and commercial LLMs (GPT-4)
- Top 3 of 50 teams in the Computer Science Al workshop, winning the Outstanding Award

Al Fitness Motion Classification | Keras, scikit-learn, MediaPipe, OpenCV, NumPy

Feb. 2024 - Mar. 2024

- Trained and compared different models to classify fitness motions in videos, including squats, bench presses, and deadlifts by 33 human skeleton keypoints extracted by MediaPipe and body angles derived from the keypoints
- Used ML/DL models (LSTM and Random Forest) to analyze the data, achieving an accuracy of 80.52% & 88.31%, respectively

AWARDS

Presidential Hackathon Winner (2024) - Urban noise detection with LLM-powered structured analysis

23rd Golden Peak Award (2025) - Outstanding Commercial Product, MaiAgent Al Platform

Two-Time Dean's List Recipient - Top 5% Academic Performance, NYCU

Atona Case Competition Finalist (Top 1%) - National enterprise transformation competition

Al Workshop Outstanding Award (Top 3/50) - Multi-Agent RAG tutoring system, NYCU CS

SKILLS

- Languages: C/C++, Python, TypeScript | Databases: SQL (PostgreSQL, SQLite), NoSQL (Neo4j, Milvus, Elasticsearch, Chroma)
- Generative AI: LangChain, LangGraph, LlamaIndex, MCP | Backend: Django, FastAPI | Machine Learning: PyTorch, scikit-learn
- AWS: Bedrock, EC2, S3, RDS, ElastiCache | Agile, Scrum | Unix: Linux, FreeBSD | Tools: git, Docker, Shell Script (Bash)