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#### **SUMMARY**

Former Generative AI Team Lead with experience building production Generative AI platforms that doubled the B2B client base and grew the user base to 20K. 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**

**Generative AI Team Lead** 

Sep. 2024 - Aug. 2025

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

Taipei, Taiwan

- Building AI Agents Upgraded chatbots into AI 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 advanced RAG system with async framework and dual-database synchronization (RDB/Vector DB), scaling 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 (15K+ stars), fixing bugs and adding features in integrations with AWS Bedrock, Claude, Elasticsearch, Cohere, OpenAI, MCP Client, 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
- Enterprise Knowledge System: Built a semantic tagging and permission management multi-knowledge base system for B2B clients

## **PROJECTS**

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

Feb. 2024 - Aug. 2024

- Self-Routing Agentic RAG: Implemented a query classification agentic AI system that picks a global or local approach to request slicing from Graph RAG, Vector RAG or a Hybrid (Graph & Vector) RAG path to answer the contextual or detail-oriented queries
- ML Clustering: Applied ML clustering algorithms (K-means and DBSCAN) in recognizing pivotal nodes from vector database to build a low-cost Graph RAG; saved 35% of indexing token cost, with only 2.56% worse in RAGAS metrics
- Advanced Hybrid RAG: 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, CrewAI, Streamlit, Chroma

Feb. 2024 - Jul. 2024

- Multi-Agent Framework: Utilized 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)
- Interactive UI: Enabled user tuning of LLM settings and inspection of chain-of-thought from ReAct Agent and citations by Streamlit
- Competition Achievement: Top 3 of 50 teams in the Computer Science AI workshop, winning the Outstanding Award

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

Feb. 2024 - Mar. 2024

- Video Data Extraction: Extracted temporal 33 human skeleton keypoints and body angles from 24 videos by MediaPipe
- ML/DL Model Training: Trained and compared ML/DL models (LSTM & Random Forest) to classify fitness motions in videos, including squats, bench presses, and deadlifts by 33 human skeleton keypoints, 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 AI 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)
- GenAI: LlamaIndex, LangChain, LangGraph, MCP | Backend: Django, FastAPI | Frontend: HTML, CSS, JavaScript, React
- Tools: git, Docker, Shell Script | Methodologies: Agile, Scrum | AWS: Bedrock, EC2, S3, RDS, ElastiCache | AI/ML: PyTorch, scikit-learn