

Tsung-Min (Vincent) Pai

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EDUCATION

Carnegie Mellon University Pittsburgh, PA
Master of Science in Electrical and Computer Engineering Expected Dec 2027

- **Current Courses:** Foundations of Computer Systems, Systems & Toolchain for AI Engineers, Reliable Distributed Systems

National Taiwan University Taipei, Taiwan
Bachelor of Science in Engineering, Electrical Engineering Dec 2025

- **Relevant Courses:** Machine Learning, Generative Artificial Intelligence, Data Visualization, Data Structure, Algorithms

WORK EXPERIENCE

LOGOLO International Inc. New Westminster, Canada
AI Engineer | Contractor Sep 2025 - Aug 2026

- Built a national **legal-exam AI corrector** on rubrics co-defined with lawyers, delivering real-time feedback at 95% accuracy and cutting turnaround 90% via multi-agent system with a parallelized pipeline.

Genibuilder Inc. Taipei, Taiwan
Founding AI Engineer | Full Time Sep 2024 - Aug 2025

- Engineered a **conversational AI agent** to replace aesthetic clinic consultants, automating the advisory process for real-time response and reducing client operational costs by 80%.
- Built an AI system realistically **simulating user-product interactions**, reducing manual validation time by over 80%.
- Developed an AI-powered data extraction pipeline to automatically deliver authentic client chat logs for the R&D team.

Compal Electronics Taipei, Taiwan
AI Project Engineer | Intern Jul 2024 - Aug 2024

- Conducted research on knowledge graphs, GraphRAG, LLM agents, and fine-tuning for **product improvement**.

PUBLICATIONS & PROJECTS

BILLY: Steering Large Language Models via Merging Persona Vectors for Creative Generation
National Taiwan University | Advisor: Prof. Hung-Yi Lee, Prof. Shao-Hua Sun | EACL 2026 Oral, First Author

- Replaced multi-agent discussion with activation layer merging inside a single small LLM, raising originality 15% while cutting inference cost and time by 95% versus multi-agent system baseline. 🔄

LLM Discussion: Enhancing the Creativity of Large Language Models via Discussion Framework and Role-Play
National Taiwan University | Advisor: Prof. Hung-Yi Lee, Prof. Shao-Hua Sun | COLM 2024

- Implemented a multi-agent role-play discussion framework, raising LLM creativity scores 20% over prior methods.
- Devised an LLM creativity benchmark reaching 0.7 correlation with human raters over 1,400+ generations. 🔄

EltAI Engine — Multimodal RAG Sports Agent
GenAI Stars 2024 Hackathon | Team Leader | High Distinction Award, Corporate Award

- Designed a multimodal RAG agent for ELTA TV with live game analysis, multilingual Q&A, and outcome prediction. 🌐

LEADERSHIP & ACTIVITIES

Introduction to Generative AI, NTU Taipei, Taiwan
Teaching Assistant / Collaborated with 30+ TAs to manage a class of over 1,000 students. Sep 2024 - Aug 2025

Department Basketball Team, NTUEE Taipei, Taiwan
Coach / Vice Captain Sep 2021 - Aug 2025

SKILLS

Programming Languages: Python, C/C++, Golang, Matlab, JavaScript

Development Tools: PyTorch, scikit-learn, LangChain, LlamaIndex, Ollama, RAG/GraphRAG, AutoGen, DSPy, NumPy, Pandas, GCP, MongoDB, Redis, PostgreSQL, Neo4j, Docker, CICD, Git, Hugging Face