Chun-Ting LIN

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Education

Carnegie Mellon University *Mountain View, CA*
Master of Science in Software Engineering *Aug 2026 – Dec 2027*
National Central University *Taoyuan, Taiwan*
Bachelor of Business Administration in Information Management *Sep 2021 – Jun 2025*
- Honor for Academic Excellence (Ranked 1st of 119 students, Fall 2024)

Experience

Software Engineer *Apr 2026 – May 2026*
Ministry of National Defense, Taiwan
- Built and refactored 15+ Django REST Framework API endpoints for a disaster response platform, moving complex business logic into a service layer and expanding unit and integration testing.
- Designed hierarchical JWT authorization with transactions to prevent invalid mission/resource updates.

AI Research and Development Engineer *Sep 2025 – Feb 2026*
ARDGE
- Built FastAPI backends for two on-premises RAG applications integrating faster-whisper and local LLMs/VLMs, reducing errors by approximately 15% in internal testing.
- Architected a PostgreSQL-backed configuration service with 10+ REST API endpoints and encrypted credential storage, enabling runtime configuration updates without service restarts.
- Hardened workers with health checks and SIGTERM-based graceful shutdown, improving reliability during container restarts and worker scaling.
- Migrated CI/CD to company infrastructure, moving 10 GitHub Actions workflows onto self-hosted runners.

Co-Founder & AI Engineer *Mar 2023 – Dec 2025*
ADAM Intelligence
- Built a Flask-based multimodal AI backend combining facial, voice, and text analysis to score interactions between customers and staff and generate service-quality insights.
- Led pilots with 100+ participants, achieving ~95% accuracy against participant-reported sentiment labels.
- Built a Python pipeline for concurrent dual-camera/audio capture and Google Cloud Storage media uploads.

AI & Automation Engineer Intern *Jul 2024 – Aug 2025*
Microsoft
- Built a Flask NLP system integrating Azure OpenAI GPT inference to score risk and categorize 1,000+ IT tickets in under 20 minutes, reducing analysis time by over 99% across three Microsoft Taipei sites.
- Designed AutoGen multi-agent orchestration with tool routing and FAISS/SQLite RAG to retrieve historical cases and generate multi-step fixes, and built REST APIs for configurable scoring.
- Built an internal logistics operations platform on SharePoint, using Office Scripts to automate ETL workflows across 10+ Greater China sites and save 15+ hours of manual tracking per week.

Projects & Hackathons

ShowMe | Qoder × Beta Fund · Agent Factory Hackathon *Aug 2026*
- Built an MCP server with 4 tools that gives AI agents human-in-the-loop, real-time web guidance that adapts after each user action.
- Developed a Playwright–JavaScript bridge linking 4 overlay APIs to refreshed page state.

PersonalDocAI *Jun 2026 – Present*
- Built a FastAPI multimodal RAG backend using PostgreSQL and LangGraph, with 4-way query routing.
- Developed a WebRTC phone-camera workflow with WebSocket signaling and Celery/Redis background jobs, reducing capture latency from 60–90s to <0.3s.
- Built an AWS offload pipeline (S3, SQS, EC2) for non-sensitive data, with automatic local fallback.

Systograph *Apr 2026 – Present*
- Built a read-only, local-first Python scanner for AI agent and RAG codebases that extracts evidence of production readiness from source, configs, and Docker assets without source code leaving the machine.
- Designed a FastAPI layer serving each build as a versioned graph to trace evidence or launch a focused rescan.

Technical Skills

Programming: Python, Java, SQL, JavaScript, unit/integration testing
Backend & Web: Django, Django REST Framework, Flask, FastAPI, Node.js, Express.js, Celery, WebSockets, WebRTC
Databases & Retrieval: PostgreSQL, MySQL, Redis, pgvector, SQLite, FAISS
AI & Orchestration: RAG, LangGraph, LangChain, AutoGen, MCP, Azure OpenAI, Ollama
Cloud & Infrastructure: AWS (S3, SQS, EC2), Git, Docker, Docker Compose, GitHub Actions, CI/CD