

Work Experience

Sr. Engineer - Going Cloud

2025 / 11 - present

- Architected and delivered an internal Multi-Agent platform for Taiwan's leading financial service providers, featuring a centralized registry for sub-agents and MCP tools to automate complex banking workflows.
- Developed an internal CLI tool to deploy standardized Agentic Coding configurations and code quality guardrails organization-wide, supporting version control and on-demand integration.
- Developed a RAG-based chatbot leveraging AWS services including S3, CloudFront, Lambda, API Gateway, Bedrock, Aurora, Certificate Manager, Secret Manager, and Route 53.
- Built the first chatbot agent by using AWS AgentCore and Strands Agents, establishing architectural patterns for agent orchestration.
- Led the migration of all production systems from Ingress-Nginx (EOL March 2026) to Istio Gateway API, ensuring zero downtime and long-term maintainability.

Sr. Software Engineer - Smart Power System

2025 / 6 - 2025 / 11

- Implement External Secret + Secret Manager to replace original environment variable deployment methods, improving manageability and security.
- Refactor legacy codebase by implementing design patterns, optimizing database queries, and applying clean code principles, improving MongoDB query performance by 60%.

Software Engineer - Smart Power System

2024 / 1 - 2025 / 6

- Designed and developed an Electricity Trading Platform with independent frontend and backend microservices.
 - Optimized Taipower's calculation by implementing Pandas vectorization, achieving a 50x speed improvement in the power wheeling simulation algorithm.
 - Reduced VM leasing costs ~70% on GCP by implementing Cloud Run and Cloud Tasks.
- Developed an authentication module powered by Keycloak, reducing feature-team development effort on auth by roughly 70 %.

Engineer Intern - Smart Power System

2022 / 1 - 2024 / 1

- Research and designed an algorithm for Renewable Electricity Trading in the Taiwan market, developed an easily used MVP web service.

Side Project

[Moniit - An assets management application](#)

2025 / 4 - present

- Integrating and unifying asset management APIs across diverse financial products such as stocks, cryptos, precious metals, and forex.
- Engineered a real-time pricing engine with a scheduler and concurrency, streaming quotes for 15 000+ symbols.

Education

- **M.S., Electrical Engineering, National Taiwan University of Science and Technology**
- **B.S., Electrical Engineering, National Taiwan University of Science and Technology**

2022 / 1 - 2024 / 1

2018 / 9 - 2022 / 1

Technical Skills

- **Programming Language:** Python, TypeScript
- **Web Framework:** FastAPI, Flask, [Vue.js](#)
- **Database:** PostgreSQL, MySQL, Redis, MongoDB
- **DevOps:** AWS, Kubernetes, Helm, Docker, Linux, GCP, Git, Nginx, Shell
- **Language:** English(Professional Working Proficiency, TOEIC: 825), Mandarin(Native)