

Guan-Ying Huang (黃冠穎)

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Summary

Master's Candidate in **Computer Science**, specializing in **Generative AI**, **Cloud Architecture**, and **Backend Engineering**. Driven to identify and solve real-world challenges by leveraging emerging technologies, with a track record of scaling applications for **5,000+** users and cutting costs by **80%**.

Skills

GenAI / Agents: LLM, RAG, Tool Calling, MCP, Agent Skills, LangChain, Multi-Agent, n8n, Context Engineering
Cloud / DevOps: AWS, GCP, Docker, Git, CI/CD, Terraform, Kubernetes, Prometheus, Sentry, Observability
Backend / Languages: Python, Go, C#, TypeScript, C/C++, Node.js, Shell, PostgreSQL, Redis, System Design

Experience

- AI Engineer (Intern) | IsCoolLab** Mar. 2025 – Present
- Research agentic automation and RPA architectures for low-tolerance, mission-critical environments.
 - Leverage LLMs to reverse-engineer complex system operations into highly structured datasets.
 - Implement Human-in-the-Loop iterations to produce a verified system workflow schema.
- Software Engineer (Intern) | Galaxy Software Services** Jul. 2023 – Jan. 2024
- Optimized B2B SaaS C# backend APIs, enhancing system stability and implementing new features.
 - Collaborated with cross-functional teams (frontend, UI/UX) within an Agile Scrum framework.

Education

- MS | National Central University | Computer Science and Information Engineering** Expected Jul. 2026
- Designed a Code Review Agent with RAG using on-premises LLMs to guarantee data sovereignty.
- BS | National Taipei University | Computer Science and Information Engineering**
- Served as IT Director, developed auditing and voting systems to facilitate student union operations.

Projects

- NTPU Student Union Voting System** (github.com/ntpusu/ntpusu-vote)
- Built a full-stack voting platform that preserves voter anonymity through cryptographic hashing.
 - Used serverless architecture to auto-scale for **5,000+** users with minimal overhead.
 - Slash costs by **80%** and boost voter turnout by over **100%** by ending the need for in-person voting.
 - Led the adoption of GitHub Flow, Dev Containers, and CI/CD to standardize development workflows.
- NTPU Information ChatBot** (github.com/garyyellow/ntpu-linebot-go)
- Modernized campus information accessibility by building a responsive LINE ChatBot serving **350+** users.
 - Built a multi-PaaS HA architecture using Cloudflare Worker for automated active-passive failover.
 - Implemented LLM intent recognition with BM25 indexing for precise, cost-efficient data retrieval.
 - Added observability with Sentry and Prometheus for logging, metrics, and incident response.

Achievements & Certifications

- Bronze Medalist, 55th National Skills Competition — Cloud Computing
- Perfect Score (7/7), Collegiate Programming Examination (CPE)
- Maintained an unbroken **1,600+** day streak in LeetCode Daily Challenges
- AWS Certified Associate — Solutions Architect, Developer, and Machine Learning Engineer
- AWS Certified Foundational — Cloud Practitioner and AI Practitioner
- Oracle Cloud Infrastructure 2025 Certified Generative AI Professional