CHEUNG, Hau Yin Franklin

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Education

The Hong Kong University of Science and Technology (Year 4) · Sep 2022 – Jun 2027

Dual Degree Programs in Technology and Management (Computer Science + AI & Finance)

AIA Scholar, Fung Scholar — GPA: 3.88/4.3 — Dean's List (All Semesters)

KTH Royal Institute of Technology, Sweden · Spring 2025

Exchange Study

Work Experience

BeNovelty

AI Project Developer · Jun 2025 – Aug 2025

- Engineered a live scraping engine using **crawl4ai** and LLMs, pinpointing key information changes on different website for efficient user retrieval.

HAECO

Data Analyst · Jun 2024 – Aug 2024

- Deployed offline, privacy-first AI solutions using **Ollama** and local LLMs to securely process sensitive enterprise maintenance data of over 100,000 assets.
- Applied **K-Nearest Neighbors (KNN)** clustering to auto-categorize over 10,000 monthly reports and analyze root causes of maintenance issues.

Projects

Meta LLM for Digital Transformation of Viu Marketing

Student Consultant · Sep 2024 – Dec 2024

- Architected a full-stack AI marketing platform using **Next.js** and **CrewAI**, orchestrating agentic workflows to generate localized push notification content.
- Engineered a solution incorporating trending topics and memes, accelerating content creation through diverse LLM experimentation (Llama, Gemma, DeepSeek, Sensenova Cantonese), aiming to significantly improve click-through rates.

Activities

JP Morgan Chase

Champion in JP Morgan Chase Code For Good 2025 · Oct 2025

- Developed a full-stack educational platform using **Next.js** and integrated **tscircuit** to render interactive 3D circuit visualizations for STEAM education.

UBS

Global Coding Challenge 2025 · Sep 2025

- Secured 2nd Place out of 100+ teams by solving complex algorithmic challenges (Graph Theory, Shortest Path, Divide and Conquer) and cybersecurity CTF problems within 24 hours.

Mentor Mates @GoodNotes

Mentormates Hackathon at Goodnotes Hong Kong 2025 · July 2025

- Champion in the "AI & Special Education" track, developing a gamified web app using **Vite**, **p5.js**, and **ml5.js** for real-time motion capture interactions.

Generative AI Hackathon for Social Good 2023-2024

Champion · Oct 2024

- Prototyped a sustainable consumption app using **LangChain** to integrate RAG and tool calling for personalized recipe recommendations.
- Fine-tuned small open-source LLMs using **Unsloth** on Google Colab to optimize model performance for food waste reduction scenarios.

Skills & Languages

Skills:	**Languages:**
Programming Languages: Python, Java, JavaScript, C++, VBA, HTML & CSS	**Cantonese:** Native Proficiency
Technologies: LangChain, Crewai, Crawl4ai, next.js, vite, pandas, numpy	**English:** Professional Working Proficiency
Specialties: Full Stack Development, Data Analysis	**Mandarin:** Professional Working Proficiency