

Cheng Ho Ming

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Education

The University of Hong Kong

Hong Kong

Bachelor of Arts and Science in Applied Artificial Intelligence (BAsc(AppliedAI))

Sep 2023 – Aug 2027 (Expected)

- **GPA:** 3.48/4.30
- **Second Major:** Computer Science
- **Relevant Coursework:** Data Structures and Algorithms (A), Java & OOP (A), C/C++ (A), Python (A+), Computer Organization (A), Linear Statistical Analysis, Computer Vision, Intro to Database

Professional Experience

Radio Television Hong Kong (RTHK)

Hong Kong

Summer Intern (JT5), Engineering Section, Production Services Division

Jun 2025 – Aug 2025 (Upcoming)

- Details to be confirmed

The University of Hong Kong

Hong Kong

Student Research Assistant (Part-Time)

May 2025 – Current

- Assisted in curation of scholarly literatures for the **CorpusChat** project under the supervision of Dr. Lisa Cheung, Center of Applied English Studies (CAES)

Student Teaching Assistant (Semester 2)

Jan 2025 – Apr 2025

- COMP2113 Programming technologies / ENGG1340 Computer programming II (**Linux, C/C++**)

InspireLab Limited

Hong Kong

Embedded Software Developer Intern

May 2024 – Aug 2024

- Built a **RISC-V microcontroller-based STEM toolkit** enabling students to program via hardware buttons; utilized 5+ open-source libraries
- Utilized 4 hardware modules to **control 64+ buttons, LEDs, and a 128×64 monochrome display**
- Developed a software emulator library to streamline collaboration between developers on limited hardware
- Collaborated with hardware engineers to verify 4+ board designs

Project Experience

Reproducing RealFill: Reference-Driven Authentic Image Completion 🐙 📄

Mar 2025 – May 2025

- Collaborated in a group of three to **reproduce** and extend the **RealFill (Tang et al, SIGGRAPH 2024)** paper on **authentic** image completion
- Implemented *ReFill*, our extension using a 2-stage iterative refinement pipeline with top-ranked generated images to augment existing reference images
- Engineered a comprehensive **benchmarking suite** to evaluate image completion authenticity across RealBench and custom datasets using 6 metrics (e.g. LPIPS, CLIP, DINO, DreamSim)

Essential IT Skills (Certificate Course by HKU SAAS Department) 🐙

May 2024 – Jun 2024

- Collaborated within a team of 5 to analyze and forecast \$NVDA stock trends, co-authoring a report on time series forecasting (Moving Averages) within 1 week

Stock Market Simulator (C++ Terminal Game) 🐙

Apr 2024

- Implemented automated **CI/CD** across 3 platforms using **GitHub Actions**, maintaining code quality through checks on 50+ pull requests
- Led a team of 5 first-year students in software design and task allocation for the C++ terminal game

PyInstaller (Open Source Development) 🐙

Jul 2021 – Nov 2021

- Contributed to PyInstaller by merging 15+ pull requests

Skills

Language: Cantonese (Native Speaker), Mandarin (Fluent), English (Fluent, HKDSE level 5)

Programming: Python, C/C++, Shell Scripting, Web Development (Express, React, MongoDB), Java, R, MySQL

AI/ML & Data Science: Generative Models (Diffusion, Inpainting), Computer Vision (Image Completion, Model Evaluation), Data Visualization, PyTorch

Tools: Linux, Git, GitHub Actions (CI/CD), LaTeX, Docker