

Cheng Ho Ming

HKU BAsc(AppliedAI) Year 2 • ✉ eric310@connect.hku.hk • 📞 +852 9499 8184
🌐 eric15342335.github.io • 🌐 linkedin.com/in/eric15342335 • 🐙 github.com/eric15342335

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 and OOP (A), C/C++ (A), Python (A+), Computer Organization (A), Linear Statistical Analysis, Computer Vision, Introduction to Database

Professional Experience

Radio Television Hong Kong (RTHK)

Hong Kong

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

Jun 2025 – Aug 2025 (Upcoming)

The University of Hong Kong

Hong Kong

Part-Time, Student Research Assistant

May 2025 – (Current)

- Support CorpusChat by identifying, filtering, and curating scientific literature for linguistic analysis under the supervision of Dr. Lisa Cheung (Center of Applied English Studies)

Part-Time, Student Teaching Assistant

Jan 2025 – Apr 2025

- Taught COMP2113/ENGG1340 (C++/Linux) via support sessions and addressing 15+ student online forum queries

InspireLab Limited

Hong Kong

Summer Intern, Embedded Software Developer

May 2024 – Aug 2024

- Built **RISC-V microcontroller STEM toolkit** for hardware button programming; used 5+ open-source libraries
- Utilized 4 hardware modules to control **64+ buttons, LEDs, and a 128x64 monochrome display**
- Developed **API-level hardware simulator** (header-based) mapping embedded I/O to terminal for development
- Collaborated with hardware engineers to verify 4+ board designs

Project Experience

Reproducing RealFill: Reference-Driven Authentic Image Completion 🐙 📄

Mar 2025 – May 2025

- Co-reproduced and extended **RealFill (Tang et al, SIGGRAPH 2024)** for authentic image completion
- Implemented *ReFill* extension: **2-stage iterative refinement pipeline with LoFTR-ranked** images to augment references
- Engineered **benchmarking suite** (6 metrics e.g. LPIPS, CLIP) for authenticity on RealBench and custom datasets

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

May 2024 – Jun 2024

- Developed Matplotlib (Python) visualizations for \$NVDA stock forecasts (team project); co-authored 1-week time series report

Stock Market Simulator (C++ Terminal Game) 🐙

Apr 2024

- Implemented **CI/CD** (3 platforms) via **GitHub Actions**, ensuring code quality (50+ PR checks)
- Led team of 5 in software design, **defining key modules (events, stock mechanics, I/O)**, and task allocation for C++ game

PyInstaller (Open Source Development) 🐙

Jul 2021 – Nov 2021

- Authored **15+ PyInstaller-hooks-contrib hooks** (e.g. Kivy), patches/docs to core; enhanced Git & CI/CD skills

Skills

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

Programming: Python (Advanced; packaging, scripting), C/C++, Java (OOP), Shell Scripting, Web Development (MERN stack), R, MySQL

AI/ML & Data Science: Generative Models (Applied Diffusion/Inpainting e.g. RealFill), Computer Vision (Image Completion, Model Evaluation with LPIPS/CLIP/DINO), PyTorch

Tools: Linux, Git (Advanced; branching, merging, CI workflows), GitHub Actions (CI/CD), LaTeX, Docker