Cheng Ho Ming

HKU BASc(AppliedAl) Year 3 • Email: 123erichappy123@gmail.com • Phone: +852-94998184 Website: eric15342335.qithub.io • LinkedIn: eric15342335 • GitHub: eric15342335

Professional Experience

Radio Television Hong Kong (RTHK)

Hong Kong

Summer Intern, Engineering Section (Broadcast Systems), Production Services Division

Jun 2025 - Aug 2025

- Researched the feasibility of correcting Cantonese subtitle transcription errors with **Streamlit** and **PyCantonese**, and developed a demo system for internal evaluation, identifying potential to reduce manual editing effort based on sample data.
- Developed a Python-based video post-processing tool using **OpenCV** and **MediaPipe** for a visitor workshop; enabled a one-button automated workflow ("START") to record, save, add effects, and playback, generating hundreds of unique showcase videos.
- Researched and evaluated webcam-based motion capture tools for 3D model animation; selected and tested a top free solution (System Animator) and validated 3D asset workflow (FBX to VRM conversion) using **Blender** and **Unreal Engine**.

The University of Hong Kong

Hong Kong

Part-Time, Student Research Assistant

May 2025 - Jun 2025

 Curated a specialized dataset of 200+ scientific articles for a linguistic analysis chatbot under principal investigator Dr. Lisa Cheung.

Part-Time, Student Teaching Assistant

Jan 2025 - Apr 2025

• Provided targeted C++/Linux support in small-group sessions, clarifying complex topics like memory management and pointers.

InspireLab Limited Hong Kong

Summer Intern, Embedded Software Developer

May 2024 - Aug 2024

- Engineered a functional RISC-V microcontroller STEM toolkit, integrating 5+ open-source libraries and controlling over 64+ I/O components.
- Developed a C-based, API-level hardware simulator to decouple software from hardware, enabling rapid parallel testing and iteration.

Project Experience

alphahku.page

July 2025 - Aug 2025

• Developed a static website for a student organization using Next.js, shadon/ui, Tailwind CSS, and deployed on Vercel.

Reproducing RealFill (a research paper on SIGGRAPH 2024)

Mar 2025 - May 2025

 Implemented and benchmarked a custom two-stage refinement pipeline based on LoFTR by integrating and modifying RealFill code in Jupyter Notebook.

Stock Market Simulator (C++ Terminal Game)

Apr 2024

- Led a team of 5 in designing software modules and managing development tasks for a C++ terminal-based game.
- Enhanced developer experience and collaboration by implementing CI/CD pipelines on 3 platforms using GitHub Actions, automating compilation and code checks for all pull requests.

Pylnstaller (Open Source Development)

Jul 2021 – Nov 2021

Contributed 15+ custom Pylnstaller hooks (e.g., for Kivy), all merged and adopted upstream in 2021, improving library compatibility
and developer experience for the open-source project.

Education

The University of Hong Kong

Hong Kong

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

Sep 2023 - Jul 2027 (Expected)

• CGPA: 3.56/4.30 Second Major: Computer Science

King's College Hong Kong Diploma of Secondary Education

Hong Kong

• Best 5 subjects: Physics (5*), Mathematics (5*), ICT (5*), Chinese (5), English (5)

Sep 2017 - Aug 2023

• King's College Harmonica Band (KCHB), 2021 Treble II Section Leader

Skills

Languages: Cantonese (Native), Mandarin (Fluent), English (Fluent)

Programming: Python (Data Science), C/C++, Java, MySQL, MongoDB

Web Development: React, Next, Express, Tailwind CSS

Tools: Linux, Git, CI/CD, Docker, LATEX

Cloud: Google Cloud Platform (Compute Engine), Vercel

Last updated: September 29, 2025