

Cheng Ho Ming

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🎓 Education

Bachelor of Arts and Science in Applied Artificial Intelligence

The University of Hong Kong

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), Probability & Statistics, Calculus and Linear Algebra, Linear Statistical Analysis, Computer Vision, Database Management Systems, Web Development

Hong Kong Diploma of Secondary Education

King's College

Sep 2017 – Aug 2023

- **Level 5*** in Mathematics, Physics, Information and Communication Technology

💼 Professional Experience

Student Teaching Assistant

The University of Hong Kong

Jan 2025 – Current

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

Embedded Software Developer Intern

InspireLab Limited

May 2024 – Aug 2024

- Utilized a HKD\$7 RISC-V microcontroller and 5+ open-source libraries to develop **STEM education toolkit**, teaching (post-)primary students **RISC-V instruction programming** via buttons
- Utilized 4 hardware modules (USART, ADC, GPIO, and I2C) to **control 64+ buttons, LEDs, and a 128×64 monochrome display**
- Developed a **software emulator library** to streamline collaboration between developers
- Collaborated with hardware engineers to verify 4+ board designs

💻 Project Experience

Essential IT Skills (HKU Certificate Course) 🔄

May 2024 – Jun 2024

- Developed 4 data visualizations of predicted NVIDIA 2024 stock prices using Python **matplotlib** library
- Authored a 2000+ word report with a group of 5, analyzing time series forecasting techniques (based on Moving Averages)

Stock Market Simulator (C++ Terminal Game) 🔄

Apr 2024

- Implemented **CI/CD** across 3 platforms using **GitHub Actions**, facilitating 50+ pull requests review and merge
- Led a team of 5 first-year students in software design and task allocation

PyInstaller (Open Source Development) 🔄

Jul 2021 – Nov 2021

- Merged 15+ pull requests addressing community issues on 📖 Stack Overflow

🛠 Skills

Language 🗣 : Cantonese (Native Speaker), Mandarin (Fluent), English (Fluent)

Programming 📄 : Python (Data Science), C/C++, Pascal, Bash, Excel VBA, HTML5, CSS3, JavaScript, Java, R, MySQL, php

Tools: 🐧 Linux , 📄 git Git , 🔄 GitHub Actions (CI/CD) , 🖥 Microsoft Office , 🌐 WordPress/Wix , 📄 LaTeX, Canva

👤 Other Experience

Director of Information Technology (Website Manager)

UNICEF Club at HKU

Mar 2025 – Current

Old Boys Helper

KCOBA Junior Chapter Lunar New Year Fair

Jan 2025

Treble II Section Leader

King's College Harmonica Band

Sep 2021 – Aug 2022