

# 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), Linear Statistical Analysis, Computer Vision, Database Management Systems

### 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 – Apr 2025

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

### Embedded Software Developer Intern

InspireLab Limited

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 (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 two developers on limited development hardware
- Collaborated with hardware engineers to verify 4+ board designs

## Project Experience

### Essential IT Skills (Certificate Course by HKU SAAS Department) 🔄

May 2024 – Jun 2024

- Developed 4 data visualizations of predicted NVIDIA 2024 stock prices using Python **matplotlib** library
- Collaborated within a team of 5 to analyze and forecast stock trends
- Authored a 2000+ word report analyzing time series forecasting techniques, specifically Moving Averages, within a 1 week deadline

### 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

### PyInstaller (Open Source Development) 🔄

Jul 2021 – Nov 2021

- Contributed to PyInstaller by merging 15+ pull requests, addressing community needs for this popular open-source tool (10,000+ GitHub stars)

## Skills

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

**Programming:** Python (Data Science), C/C++, Bash, HTML5, CSS3, JavaScript, Java, R, MySQL

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

## Other Experience

### Director of Information Technology (Website Manager)

UNICEF Club at HKU

Mar 2025 – Current

### Treble II Section Leader

King's College Harmonica Band

Sep 2021 – Aug 2022