

# Cheng Ho Ming

HKU BAsC(AppliedAI) Year 2 • ✉ [eric310@connect.hku.hk](mailto:eric310@connect.hku.hk)

🌐 [eric15342335.github.io](https://eric15342335.github.io) • [linkedin.com/in/eric15342335](https://www.linkedin.com/in/eric15342335) • [github.com/eric15342335](https://github.com/eric15342335)

## 🎓 Education

### The University of Hong Kong

Sep 2023 - Aug 2027 (Expected)

*BAsC in Applied Artificial Intelligence*

*Hong Kong SAR*

- **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

### King's College

Sep 2017 - Aug 2023

*Hong Kong Diploma of Secondary Education*

*Hong Kong SAR*

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

## 🔧 Work Experience

### InspireLab Limited

May 2024 - Aug 2024

*Embedded Software Developer Intern*

*Hong Kong SAR*

- [github.com/eric15342335/inspirematrix-buttons](https://github.com/eric15342335/inspirematrix-buttons)
- Utilized a HKD\$7 RISC-V MCU (CH32V003F4P6) and 5+ open-source libraries to prototype STEM education software, including RISC-V compressed instruction programming via buttons
- Utilized 4 hardware modules (USART, ADC, GPIO, and I2C) to detect and control 64+ buttons, LEDs, and a 128x64 monochrome display
- Developed a software emulator library to streamline collaboration between two developers on limited development hardware
- Collaborated with in-house hardware engineers to verify 4+ board designs within the last 4 weeks

## 👤 Teaching Experience

### The University of Hong Kong

Jan 2025 - Current

*Student Teaching Assistant*

*Hong Kong SAR*

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

## 💻 Project Experience

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

May 2024 - Jun 2024

- [github.com/eric15342335/essential-IT](https://github.com/eric15342335/essential-IT)
- 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

- [github.com/eric15342335/comp2113-engg1340-group-project](https://github.com/eric15342335/comp2113-engg1340-group-project)
- Implemented automated code compilation and testing across 3 platforms using GitHub Actions
- Maintained code quality through automated formatting 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

- [github.com/pyinstaller/pyinstaller-hooks-contrib](https://github.com/pyinstaller/pyinstaller-hooks-contrib)
- Contributed to PyInstaller merging 15+ pull requests, addressing community needs
- Became a contributor to the PyInstaller project, a popular open-source tool with over 10,000 stars on GitHub
- Provided community support on [Stack Overflow](https://stackoverflow.com), resolving PyInstaller-related issues and receiving 10+ upvotes and "Accepted" status on solutions

## Extra Curricular Activities

---

### UNICEF Club at HKU

*Director of Information Technology (Website Manager)*

Mar 2025 - Current

*Hong Kong SAR*

### KCOBA Junior Chapter Lunar New Year Fair

*Booth Helper*

Jan 2025

*Hong Kong SAR*

### King's College Harmonica Band


*Treble II Section Leader*


Sep 2021 - Aug 2022





*Hong Kong SAR*

## Skills

---

**Programming**  : Python, C/C++, Pascal, Bash, Excel VBA, HTML&CSS, JavaScript, Java, R, MySQL

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

**Tools:**  Linux , **git** Git ,  GitHub Actions ,  Microsoft Office ,  WordPress/Wix ,  $\LaTeX$