

# CHENG HO MING

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## EDUCATION

### The University of Hong Kong, Hong Kong SAR

Sep 2023 - Aug 2027 (Expected)

BASc in Applied Artificial Intelligence

- **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, Hong Kong SAR

Sep 2017 - Aug 2023

Hong Kong Diploma of Secondary Education

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

### InspireLab Limited, Embedded Software Developer Intern

May 2024 - Aug 2024

- <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
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## TEACHING EXPERIENCE

### The University of Hong Kong, Student Teaching Assistant

Jan 2025 - Current

- COMP2113 Programming technologies / ENGG1340 Computer programming II (Linux, C/C++)
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## PROJECT EXPERIENCE

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

May 2024 - Jun 2024

- <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

- <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

- <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, resolving PyInstaller-related issues and receiving 10+ upvotes and "Accepted" status on solutions
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## EXTRA CURRICULAR ACTIVITIES

### KCOBA Junior Chapter Lunar New Year Fair - Booth Helper

Jan 2025

### King's College Harmonica Band - Section Leader

Sep 2021 - Aug 2022

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## 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, GitHub Actions, Canva, Microsoft Office, WordPress/Wix, LaTeX