

# CHENG HO MING

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## EDUCATION

**The University of Hong Kong** **Sep 2023 - Aug 2027 (Expected)**  
Bachelor of Arts and Science in Applied Artificial Intelligence

- CGPA: 3.42/4.30
- Relevant Course: Python (A+), C/C++ (A), Computer Organization (A)

**King's College, Hong Kong** **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 (STEM Education), Summer Internship** **May 2024 - Aug 2024**

- Used low cost RISC-V MCU (CH32V003F4P6) and open source libraries to prototype STEM related software, such as RISC-V compressed instructions programming via buttons
- Utilized 4 hardware modules (USART, ADC, GPIO, I2C) for debug message output, button press detection, LED control, and OLED display (ssd1306) to create interactive software
- Developed an emulator library to simulate embedded software functions, enabling comprehensive testing without relying on physical hardware
- Worked together with hardware engineers to test and verify new board designs to achieve critical functionality

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## PROJECT EXPERIENCE

**Stock Market Simulator, School Project** **Apr 2024**

- Accelerated code review by utilizing GitHub Actions
- Delivered quality code by enforcing formatting style and documentation using clang-format and doxygen

**PyInstaller, Open Source Development** **July 2021 - Nov 2021**

- Merged 16 pull requests. 14 on pyinstaller-hooks-contrib, 2 on pyinstaller
- Documented change log, wrote test cases, and answered StackOverflow questions

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## ADDITIONAL INFORMATION

### Programming Languages:

- Experienced: Python, C/C++
- Attempted: Pascal, Bash, Excel VBA

**Tools:** Makefile, Git, GitHub Actions

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