

# 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, C/C++, Computer Organization, Probability & Statistics

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

Essential IT Skills (Certificate Course by HKU SAAS Department)

May 2024 - June 2024

- Analyzed NVIDIA's 2023 stock data using Excel VBA, predicted 2024 prices, and presented findings with Python in a team of 5

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:

- Familiar: Python, C/C++
- Basic: Pascal, Bash, Excel VBA, HTML/CSS, Java

Tools: Makefile, Git, GitHub Actions, LaTeX, Markdown

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