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

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

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

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)