

# CHENG HO MING

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## EDUCATION

### The University of Hong Kong

Sep 2023 - Aug 2027

BAsc(Applied Artificial Intelligence), Department of Statistics and Actuarial Science, School of Computing and Data Science

- **GPA:** 3.48/4.30
- **Courses:** Introduction to Data Structures and Algorithms (A), Java (A), C/C++ (A), Python (A+), Computer Organization (A), Probability & Statistics, Calculus and linear algebra

### 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, Embedded Software Developer (Summer Intern)

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 - Jun 2024

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

### Stock Market Simulator (C++ Terminal Game)

Apr 2024

- Accelerated code reviews by utilizing GitHub Actions workflows
- Delivered quality code by enforcing formatting style and documentation using clang-format and doxygen
- Designed and planned development of most game mechanics

### PyInstaller (Open Source Development)

Jul 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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## ABILITIES

### Programming Languages:

- Python, C/C++, Pascal, Bash, Excel VBA, HTML&CSS, JavaScript, Java

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