

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, Java, C/C++, Python, Computer Organization, 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

WORK EXPERIENCE

The University of Hong Kong, Student Teaching Assistant

Jan 2025 - Current

- COMP2113/ENGG1340 Programming technologies & Computer programming II (Linux, C/C++)

InspireLab Limited, Embedded Software Developer (Summer Intern)

May 2024 - Aug 2024

- Developed interactive software prototypes for STEM education
- Utilized buttons, lights, and displays to create teenager-friendly interfaces
- Built a software simulator to enhance software testing efficiency and reduce hardware dependence, enabling parallel development and faster iteration
- Collaborated with hardware engineers on hardware verification
- **Key Skills:** Embedded Software Development, Software Testing, Simulation, Hardware Collaboration, RISC-V

PROJECT EXPERIENCE

Essential IT Skills (Certificate Course by HKU SAAS Department)

May 2024 - Jun 2024

- Developed data visualizations of predicted NVIDIA 2024 stock prices using Python (matplotlib)
- Team utilized Excel VBA for basic time series analysis to generate predictions
- **Key Skills:** Data Visualization, Python, Teamwork

Stock Market Simulator (C++ Terminal Game)

Apr 2024

- Proactively foresaw software development cycle and integrated CI/CD practices, including automated code review workflows, to enhance development efficiency
- Ensured code quality through formatting and documentation checks
- Led the design and implementation of core game mechanics
- **Key Skills:** GitHub Actions, Code Quality, Software Design, C++17 Development, Makefile, CMake, Cross Platform

PyInstaller (Open Source Development)

Jul 2021 - Nov 2021

- Contributed to open source project by merging code changes
- Improved software reliability through test case creation
- Enhanced documentation and provided community support on StackOverflow
- **Key Skills:** Open Source Contribution, Testing, Documentation, Community Support

SKILLS

Programming:

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

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