Cheng Ho Ming

HKU BASc(AppliedAI) Year 2 • ✉ eric310@connect.hku.hk

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🎓 Education

The University of Hong Kong Sep 2023 - Aug 2027 (Expected)
BASc in Applied Artificial Intelligence *Hong Kong SAR*

- **GPA**: 3.48/4.30
- **Second Major**: Computer Science
- **Relevant Coursework**: Data Structures and Algorithms (A), Java & OOP (A), C/C++ (A), Python (A+), Computer Organization (A), Probability & Statistics, Calculus and Linear Algebra

King's College Sep 2017 - Aug 2023
Hong Kong Diploma of Secondary Education *Hong Kong SAR*

- **Level 5*** in Mathematics, Physics, Information and Communication Technology

💼 Work Experience

InspireLab Limited May 2024 - Aug 2024
Embedded Software Developer Intern *Hong Kong SAR*

- 🐙 github.com/eric15342335/inspirematrix-buttons
- Utilized a HKD$7 RISC-V MCU (CH32V003F4P6) and 5+ open-source libraries to prototype STEM education software, including RISC-V compressed instruction programming via buttons
- Utilized 4 hardware modules (USART, ADC, GPIO, and I2C) to detect and control 64+ buttons, LEDs, and a 128x64 monochrome display
- Developed a software emulator library to streamline collaboration between two developers on limited development hardware
- Collaborated with in-house hardware engineers to verify 4+ board designs within the last 4 weeks

🧑‍🏫 Teaching Experience

The University of Hong Kong Jan 2025 - Current
Student Teaching Assistant *Hong Kong SAR*

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

🖥 Project Experience

Essential IT Skills (Certificate Course by HKU SAAS Department) May 2024 - Jun 2024

- 🐙 github.com/eric15342335/essential-IT
- Developed 4 data visualizations of predicted NVIDIA 2024 stock prices using Python matplotlib library
- Collaborated within a team of 5 to analyze and forecast stock trends
- Authored a 2000+ word report analyzing time series forecasting techniques, specifically Moving Averages, within a 1 week deadline

Stock Market Simulator (C++ Terminal Game) Apr 2024

- 🐙 github.com/eric15342335/comp2113-engg1340-group-project
- Implemented automated code compilation and testing across 3 platforms using GitHub Actions
- Maintained code quality through automated formatting checks on 50+ pull requests
- Led a team of 5 first-year students in software design and task allocation

PyInstaller (Open Source Development) Jul 2021 - Nov 2021

- 🐙 github.com/pyinstaller/pyinstaller-hooks-contrib
- Contributed to PyInstaller merging 15+ pull requests, addressing community needs
- Became a contributor to the PyInstaller project, a popular open-source tool with over 10,000 stars on GitHub
- Provided community support on 🐘 Stack Overflow , resolving PyInstaller-related issues and receiving 10+ upvotes and "Accepted" status on solutions

🧗 Extra Curricular Activities

UNICEF Club at HKU   Mar 2025 - Current
Director of Information Technology (Website Manager)   *Hong Kong SAR*

KCOBA Junior Chapter Lunar New Year Fair   Jan 2025
Booth Helper   *Hong Kong SAR*

King's College Harmonica Band   Sep 2021 - Aug 2022
Treble II Section Leader   *Hong Kong SAR*

🛠 Skills

Programming </> : Python, C/C++, Pascal, Bash, Excel VBA, HTML&CSS, JavaScript, Java, R, MySQL
Language 🆎 : Cantonese (Native), Mandarin (Fluent), English (Fluent)
Tools: 🐧 Linux , **git** Git , GitHub Actions , Microsoft Office , ⓦ WordPress/Wix , LaTeX

Last updated: April 1, 2025