

Cheng Ho Ming

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Education

The University of Hong Kong <i>Bachelor of Arts and Science in Applied Artificial Intelligence (BASc(AppliedAI))</i> <ul style="list-style-type: none">• GPA: 3.56/4.30• Second Major: Computer Science• Relevant Coursework: Data Structures and Algorithms (A), Java and OOP (A), C/C++ (A), Python (A+), Computer Organization (A), Linear Statistical Analysis (A-), Computer Vision (A-), Database (A-)	Hong Kong Sep 2023 – Aug 2027 (Expected)
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Professional Experience

Radio Television Hong Kong (RTHK) 🌐 <i>Summer Intern, Engineering Section, Production Services Division</i> <ul style="list-style-type: none">• Improving the accuracy of an automatic speech recognition (ASR) system and develop video editing automation tools using Python	Hong Kong Jun 2025 – (Current)
The University of Hong Kong 🌐 <i>Part-Time, Student Research Assistant</i> <ul style="list-style-type: none">• Curating a specialized dataset of 200+ scientific articles across four themes (AI, Big Data, Sustainability) for the CorpusChat linguistic analysis Chatbot• Principal Investigator: Dr. Lisa Cheung from CAES (Center of Applied English Studies) <i>Part-Time, Student Teaching Assistant</i> <ul style="list-style-type: none">• Provided targeted C++/Linux support in small-group sessions, clarifying complex topics like memory management and pointers• Addressed 15+ student queries on the online forum, providing detailed explanations to resolve issues	Hong Kong May 2025 – (Current) Jan 2025 – Apr 2025
InspireLab Limited 🌐 <i>Summer Intern, Embedded Software Developer</i> <ul style="list-style-type: none">• Engineered a functional RISC-V microcontroller STEM toolkit, integrating 5+ open-source libraries and controlling 64+ I/O components• Developed a C-based, API-level hardware simulator to decouple software from hardware, enabling rapid, parallel testing and iteration• Resolved critical hardware integration challenges by mapping board schematics to physical I/O ports, ensuring reliable device operation	Hong Kong May 2024 – Aug 2024

Project Experience

Google Cloud Automated Minecraft Game Server 🌐 <ul style="list-style-type: none">• Provisioned and benchmarked a Google Compute Engine VM to host a high-performance Minecraft server supporting 5+ concurrent players and a live web map• Automated server operations, using scheduled snapshots for disaster recovery and scripted shutdowns to minimize costs while ensuring data integrity	May 2025 – (Current)
Reproducing RealFill: Reference-Driven Authentic Image Completion 🐙 📄 <ul style="list-style-type: none">• Extended RealFill (Tang et al, SIGGRAPH 2024) by implementing a novel 2-stage iterative refinement pipeline using LoFTR to improve reference image selection• Engineered a comprehensive benchmarking suite (6 metrics, e.g., LPIPS, CLIP) to quantitatively evaluate model authenticity on RealBench and custom datasets	Mar 2025 – May 2025
Stock Market Simulator (C++ Terminal Game) 🎮 <ul style="list-style-type: none">• Led a team of 5 in software design, defining key modules and allocating tasks for a C++ terminal-based game• Implemented CI/CD pipelines on 3 platforms using GitHub Actions, ensuring code quality via 50+ automated pull request checks	Apr 2024
PyInstaller (Open Source Development) 🐙 <ul style="list-style-type: none">• Authored 15+ PyInstaller hooks to expand support for libraries like Kivy, contributing directly to a major open-source project with 12k+ stars	Jul 2021 – Nov 2021

Skills

Language: Cantonese (Native Speaker), Mandarin (Fluent), English (Fluent, HKDSE level 5)
Programming: Python (Advanced), C/C++, Java (OOP), Shell Scripting, Web Development (MERN stack), R, MySQL
AI/ML & Data Science: Image Inpainting (Diffusion Models), Model Benchmarking (LPIPS/CLIP/DINO), PyTorch
Tools: Linux, Git, CI/CD (GitHub Actions), LaTeX, Docker, Google Cloud Platform (Compute Engine)