Cheng Ho Ming

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Education

The University of Hong Kong

Hong Kong

Bachelor of Arts and Science in Applied Artificial Intelligence (BASc(AppliedAI))

Sep 2023 - Aug 2027 (Expected)

• **GPA**: 3.48/4.30

· 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, Computer Vision, Introduction to Database

Professional Experience

Radio Television Hong Kong (RTHK) (

Hong Kong

Summer Intern, (JT5) Engineering Section, Production Services Division

Jun 2025 - Aug 2025 (Upcoming)

The University of Hong Kong

Hong Kong

Hong Kong

Part-Time, Student Research Assistant

May 2025 - (Current)

- 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)

Part-Time, Student Teaching Assistant

Jan 2025 – Apr 2025

- 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

InspireLab Limited 🏶

Summer Intern, Embedded Software Developer

May 2024 - Aug 2024

- 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

Project Experience

Google Cloud Automated Minecraft Game Server 🏶

May 2025 – (Current)

- 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

Reproducing RealFill: Reference-Driven Authentic Image Completion 🗘 📙

Mar 2025 – May 2025

- 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

Stock Market Simulator (C++ Terminal Game) 🔾

Apr 2024

- 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

Pylnstaller (Open Source Development) 🗘

Jul 2021 - Nov 2021

 Authored 15+ Pylnstaller hooks to expand support for libraries like Kivy, contributing directly to a major open-source project with 12k+ stars

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)

Last updated: June 15, 2025