



JIM Tze Lau, Hogan

BA(HDT) Student · Second Major in Computer Science

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PROFESSIONAL SUMMARY

Second-year **BA in Humanities and Digital Technologies** student at The University of Hong Kong, a first-of-its-kind interdisciplinary programme in Asia that fuses humanities training with digital technologies, data literacy, AI, and project-based learning to cultivate innovative problem-solvers. Also pursuing a second major in **Computer Science**.

Passionate about video game development, VR, and interactive media, with hands-on experience in C++, C#, Unity, and Unreal Engine. My humanities focus on philosophy enhances critical thinking, ethics, and user-centered design, enabling rigorous reasoning for responsible game mechanics, narrative design, and intuitive UX in immersive projects. Strong in prototyping, debugging, agile collaboration, and translating concepts into working demos for real-world tech pipelines.

PROJECTS & EXPERIENCE



Midnight Gambit – Lead Game Designer, Programmer

Jan 2026 · Global Game Jam HK 2026 (Team of 8)

- Designed the complete gameplay loop of a strategy-versus game blending chess mechanics, hidden identity, and resource management.
- Balanced unit economics (costs vs. abilities) and defined unique mechanics for 6 unit types (e.g., Assassin, Banker) and the "Midnight" phase.
- Implemented the Main Menu, simple Tutorial, and Audio systems in Unity, integrating with backend server logic.

Unity · C# · Game Design · Balancing · UI



Arts Tech Lab – Student Helper

Jan 2025–Current · The University of Hong Kong

- Modernized the lab's inventory system by implementing a QR code and labeling workflow for all equipment.
- Developing an AI-powered lab assistant agent using **n8n** and **MongoDB** to automate responses to student inquiries and equipment requests.
- Provide technical support for XR facilities and assist students with hardware troubleshooting.

n8n · MongoDB · Lab Operations · Technical Support



Nyxia – Lead Programmer, Game Mechanics Designer

Mar 2025–Current · HKU ATL GameMakers Group (HAGG)

- Design and implement core gameplay systems for a team-based game project.
- Collaborate with designers and artists to iterate quickly on mechanics and balancing.

C# · Unity · Game Development · HKU ATL



Wordle Clone – Programmer

Sep–Nov 2025 · The University of Hong Kong

- Implemented 6 modes (Standard, 4-letter, Hard, Infinite, Multiplayer, Quordle).
- Added leaderboard and in-game quit commands.

C++ · Game Design · Data Structures · Project Management



Behind Bars: Victoria Prison – Programmer

Feb–May 2025 · The University of Hong Kong

- Recreated Tai Kwun's B Hall in Unreal Engine for digital humanities teaching.
- Worked with Twinmotion and SketchUp assets to produce an immersive environment.

Unreal Engine · Twinmotion · SketchUp



Warlike Mech – Project Manager, Lead Game Designer

Aug–Dec 2022 · Pui Ching Middle School · JFK scheme

- Developed a 2D action-platformer in a small team, responsible for project management, map design, mechanics design, and more.
- Delivered a playable demo on itch.io to showcase gameplay and narrative.

GameMaker Studio · Game Design · Project Management

EDUCATION

BA(HDT) – Humanities & Digital Technologies

Second Major: Computer Science

The University of Hong Kong · Sep 2024 – Aug 2028 (Expected)

cGPA: 3.67 (Year 2 Sem 1)

Relevant Coursework:

COMP1117 Computer Programming
COMP2113 Programming Technologies
COMP2119 Data Structures & Algorithms (ongoing)
COMP2120 Computer Organization
COMP2121 Discrete Mathematics
COMP3329 Game Design & Programming (ongoing)
HUDT2100 Emerging Trends in Digital Practices
HUDT2205 XR in the Humanities
BSIM3021 Web development (ongoing)
STAT1016 Data Science 101

STRENGTHS

Personal

Hard-working

Motivated

Quick learner

Team player

Independent

Technical

C++

C#

Python

Pascal

HTML

Unity

Unreal Engine

Twinmotion

LANGUAGES

Cantonese – Native

English – Professional (IELTS 8.5)

Mandarin – Proficient

INTERESTS

Video game design, programming, digital humanities, history, and philosophy.

AWARDS & HONORS

- La Salle – Pui Ching Programming Challenge**
Elite Award · La Salle College · Aug 2023
- Bebras Computational Thinking Challenge**
Gold Award (Top 10%) · Hong Kong · Apr 2019
- Pascal Contest (University of Waterloo)**
Certificate of Distinction (Top 25%) · Apr 2019
- Mr. Fong Ho Sing Scholarship**
Outstanding Math (Arts Classes) · Pui Ching Middle School · Jul 2023
- Mr. Wong Kai Ming Memorial Scholarship**
First in Class (x3) · Pui Ching Middle School · 2019, 2022, 2023

TEST SCORES

- IELTS:** 8.5 (C2) – Listening 9.0, Reading 9.0, Writing 7.5, Speaking 7.5 (Aug 2023)
- HKDSE:** 27 (Best 5) – English 5*, ICT 5*, Math M2 Econ 5 (Apr 2024)