

Ian Leung

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Education

University of Waterloo

Bachelor of Computing and Financial Management - Co-op (Computer Science + Finance Double Major) GPA: 4.0

- Relevant Courses: Designing Functional Programs (Advanced), Introduction to Data Analytics and Financial Markets

Technical Skills

Languages Python, Java, C++, C#, Bash, SQL, Kotlin, Racket, LaTeX

Technologies Git, Firebase, MongoDB, Qt, Unity Game Engine, OpenCV, SQLite, Pytorch, Pandas

Developer Tools Linux, Gitlab, Github, Docker, Kaggle, Colab, Jupyter, VSCode, Copilot

Work Experience

Waterloo Reality Labs

Waterloo, ON

Software Developer – Python, Pytorch, Unity Game Engine

Sep 2025 - Present

- Working in a collaborative team environment to develop a Unity Plugin for hand pose recognition on VR headsets
- Applying Machine Learning/Neural Networks to identify user-inputted hand gestures (**Pytorch, etc.**)

Sunnybrook Research Institute

Toronto, ON

Software Development Intern – Python, Qt, Pydantic, VTK

Jul 2025 – Aug 2025

- Integrated a tool for automating UI release tests, eliminating manual labor, and reducing test times by **70%**
- Harnessed Python, Qt, and Pydantic to identify, capture, and replay user interactions with focused ultrasound software
- Created a logging API to compare expected and actual results of automated tests, identifying **5+** software bugs

The STEAM Project

Richmond Hill, ON

Camp Counselor

Jun 2023 – Jan 2024

- Led **50+** children aged 5 to 10 through exciting hands-on activities and programs
- Collaborated with engineering students to create and teach engaging STEM-based lessons for our campers

Projects

Trust No Ghost: UWGDC Game Jam Spring 2025 Submission

[Itch.io Link](#)

- 3D maze exploration game in which you identify and feed candy to good enemies with **60+ visits**
- Developed on Unity Game Engine, with dynamic movement mechanics and enemy pathfinding algorithms

PeerAssist: Peer reviewing and editing platform for students

[Github Link](#)

- Java-based platform for students to share, review and grade the works of others
- Uses **MongoDB Atlas**, **Apache PDFBox**, and **Maven** to display, manage and store user documents

Other Projects

- **N-body Simulation:** Gravity Simulation/Visualization with Barnes-Hut algorithm. Uses Pyglet, Numpy, Pandas
- **K-Pop Idol Recognizer:** LBPH Facial Detection and Recognition. Used OpenCV, Kaggle, Pandas, Numpy
- **AI Name Forecasting:** Predicting future outlook using AI, based on Implicit Egotism. Used OpenAI API
- **Pinance:** Financial analysis and machine learning. Used Numpy, Pandas, Beautiful Soup, Sklearn, Matplotlib