

# Ian Leung

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## Education

### University of Waterloo

2025-2029

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
- **Finance:** Financial analysis and machine learning. Used Numpy, Pandas, Beautiful Soup, Sklearn, Matplotlib