

Joseph Liao

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EDUCATION

Queen's University

Bachelor of Computer Science, Honours

Expected Graduation: May 2026

Kingston, Ontario

SKILLS

Language Proficiency: English, Mandarin

Programming Languages/Frameworks: Python, Tensorflow, LangChain, C++, C#(Unity), Java, JavaScript, React, Express.js, MongoDB, Supabase, React Native, TypeScript, Next.js, AWS

Design Software: Figma, Adobe Suite (Indesign, Illustrator, Photoshop), Blender, Canva, Fusion 360

EXPERIENCE

Co-founder, Lead Developer

Jan 2024 – Present

Local Reach

Kingston, Ontario

- One of 4 Co-founders for a computer vision startup which aims to help bars and restaurant reclaim their ad space using AI commercial detection.
- Raised over **\$50,000** in seed funding and **\$3000+** in revenue in 5 months
- Lead development of a lightweight **96%** accuracy ad detection algorithm using a combination of Tensorflow, OpenCV, and Python.
- Designed custom circuitry with KiCad which deployed at **5** restaurants
- Completed 2 Incubator programs, Qyourventure and Startup Survivor, currently apart of League of Innovators (Lab 13)

Computer Vision Research Intern

May 2024 – August 2024

Queen's University

Kingston, Ontario

- Lead development and testing of **4** unique algorithms for tracking audio and visual heuristics in live TV content
- Compiled a dataset with over **100,000** images and **30+** hours of TV footage.
- Worked under Dr. François Rivest, funded by Mitacs

Project Assistant

June 2023 – Oct 2023

Elevate Integrated Solutions

Richmond Hill, Ontario

- Worked with **3 private businesses** to tackle various marketing problems
- Lead prototyping and design of CRM systems, ERP systems, and client-facing websites with Figma and Adobe suite software

PROJECTS

Hackathons, Game Jams, and Competitions

Jan 2023 – Present

- HackMIT 'FightLab' **First Place** "Most Marvel-ous Hack"
- Mayors Innovation Challenge 2024 'BaoBab' 1st place, won **\$5000** in seed funding
- HacktheHill 'Stumble' **Best UI/UX** out of **100+** submissions and **500+** hackers.
- Qhacks 2024 'Deer, Journal' Placed **5th** overall out of **50 projects** and **400+ participants**
- HawkHacks 2024 'Better' Placed **3rd** in NEAR blockchain category
- 2023 GMTK Game Jam placed **299th** overall out of **+6700 entries**

Personal Projects

- InQubate Website: www.inQubate.ca, Lead design and development
- Personal Website: www.josephliao.com
- Reddit Video Generator, used Reddit API and Movie.py to generate 200+ short form videos.
- Discord Bot, used the Discord developer API to send over 5000+ messages

EXTRACURRICULAR

QMIND (Queens AI club): *Director of Marketing*

March 2024 – Present

InQubate (Queens Startup Incubator): *Tech Consultant, Director of Marketing*

March 2024 – Present

Queen's University Wrestling Team: *Varsity Wrestler*

Sept 2022 – Present