Timothy Leung

(647)580-7042 | timothyrleung@gmail.com | https://www.linkedin.com/in/timothy-leung-002831232/ | https://github.com/leungt30 | https://timothy-leung.vercel.app/

EDUCATION

McMaster University (3.9 GPA)   Hamilton, ON
Honours Bachelor of Applied Science in Computer Science   *Sept. 2021 – Apr. 2025*
- 2021, Engineering Award of Excellence: Awarded to students entering Level 1 in the top 10% of their faculty
- **Relevant Courses:** Introduction to Programming (A+), Data Structures and Algorithms (A+), Introduction to Software Development (A+), Algorithms and Software Design (A), Databases (A+), Linear Algebra I (A+)

KEY SKILLS

Languages and frameworks: Python, Java, C, C++, HTML, CSS, JS, SQL, Haskell, React, Astro, Tailwind, Elm
Libraries: Selenium, Tensorflow, Pandas, Sklearn, NumPy, Tkinter, PGPlot

EXPERIENCE

Research Assistant   Hamilton, ON
McMaster University   *Oct 2023 – now*
- Developed tools in **Python** to help test **autonomous car systems**
- Utilized **CARLA and Aimsun** to simulate regular traffic conditions and developed navigation tools for CARLA
- Collaborating in the development of a **car collision avoidance system**, focused on mitigating side car collisions.

Logistics Executive   Hamilton, ON
DeltaHacks   *Sep 2023 – now*
- Handled and negotiated the order of custom merchandise for over 3000 items
- Created and executed plans to feed over 700 DeltaHack participants
- Collaborated with other teams to coordinate events in our selected venue
- Organized over 50 volunteers to help execute the event in an orderly fasion

PROJECTS

Pet Care Scheduling and Booking Platform
Wuff Dog Care Business   *July 2023 - now*
- Building website using **REACT** to create interactive and intuitive application
- Connected platform to **firestore and realtime firebase** to allow for centralized control for client and live messaging

Automated Valorant Rank Checker
Valorant Showdown   *July – Aug, 2022*
- Worked with **Selenium** and **Python** to web-scrape information
- Automated verification process of over 120 players

Valorant Showdown Official Website
Valorant Showdown   *2022-2023*
- Built website using **ASTRO** and **Tailwind**
- Worked closely with client to ensure website met requirements in a timely and efficient manner

Voice Assistant
Personal Project   *July – Aug, 2021*
- Voice assistant had access to live weather data, ability to play music, and answer basic commands
- Created voice activated assistant using **Python**, **Tkinter**, and weather **APIs**

Infectious Disease Statistical Model
Data science project   *September 2023 - December 2023*
- Built a mathematical model based on the SIR model of infectious disease using **C++** with graphs via **PGPlot**
- expanded upon SIR model to include realistic predictions based on vaccination rates, vaccination efficiency, vaccination duration, birthrates, death rates, and limited immunity duration
- **Tested** the model against other models to ensure it could recreate known scenarios given the same starting parameters