

HY LAC NGUYEN

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EDUCATION

University of Waterloo

Waterloo, ON

Bachelor's of Computer Science, **3.94/4.00 GPA**

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, C, C++, Python, HTML/CSS, SQL, Bash

Frameworks/Libraries: React, Express.js, Flask, Expo, NumPy, OpenCV, Tkinter, Matplotlib, FastAPI, Three.js, Pygame

EXPERIENCE

Frontend Developer

Feb. 2025 – Present

Popin

Toronto, ON

- Helped develop a cross-platform app using **React Native** and **Expo** to help users connect with the right people at events
- Implemented profile and event-sharing features, enabling **100+ users** to connect and interact seamlessly
- Built a real-time notification system with **Python Flask** to alert users of matches and likes, enhancing user engagement

Software Developer

Jan. 2025 – Present

WATonomous

Waterloo, ON

- Implemented costmap generation, improving collision detection for robot navigation using **ROS2** and **C++**
- Collaborated with a team of three to develop an autonomous robot navigation system, leveraging Git for file management

Coding Club Executive

Sept 2021 – June 2024

Streetsville Secondary School

Mississauga, ON

- Hosted live game development sessions, teaching **30+** students the basics of Pygame
- Hosted live Canadian Computing Competition review sessions, solving previous year's problems in **C++**
- Taught **50+** beginner students how to code in Python and provided additional practice problems

PROJECTS

Centsible Cooking | React, TypeScript, Tailwind CSS, Git

Jan 2025 – Jan 2025

- Prototyped a **React** app written in **TypeScript** to teach students how to cook and save money
- Integrated Gemini REST API to power the recipe generation functionality
- Worked in a team of two to deliver a functional prototype within a tight **24-hour** hackathon timeframe

Hangman Helper | Python, Matplotlib, NumPy, Tkinter

Dec 2024 – Jan 2025

- Developed a **Python** application to assist users in solving hangman puzzles
- Designed an intuitive GUI using **Tkinter** for seamless user interaction
- Integrated **Matplotlib** to visually represent letter probabilities, improving decision-making accuracy

Goose Clicker | HTML/CSS, JavaScript

Sept 2024 – Dec 2024

- Developed a web game inspired by Cookie Clicker using **HTML/CSS** and **JavaScript**
- Designed a responsive user interface to ensure compatibility on various devices and screen sizes
- Designed and implemented a balanced progression system with **9 items**, as well as **25 upgrades**

Canadian Computing Competition (CCC) Solutions | C++

Sept 2022 – Aug 2024

- Helped **600+** high school students prepare for the CCC by providing full solutions to **100+** CCC problems
- **24 stars** and **1 fork** on Github, averaging **2000+ views** monthly, helping **30+** high schoolers daily

AWARDS

Governor General's Bronze Medal - Highest academic standing at Streetsville Secondary School