Anthony Lau

University of Waterloo Computer Engineering
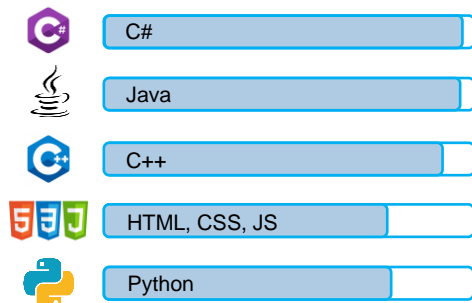
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Skills

- C#
- Java
- C++
- HTML, CSS, JS
- Python

Awards

Genesys Hackathon - 2nd place
Implemented a **chatbot** that analyses input and helps with **debugging** code, with additional functionality such as **Jira** ticket linking.

President's Scholarship - $2000
Awarded for over 90% admission average.

Nortel Networks Undergraduate Scholarship - $3500
Awarded for outstanding academic performance and extracurricular activities involvement.

Duke of Edinburgh Silver Award
A year long program focused on community improvement and personal growth.

Extracurricular

DECA - competed at the provincial level

Relay for Life - helped raised over $100K

RCM - Piano level 8 1st class honours

Interests

Outdoor sports - skiing and biking

Reading - fantasy and history

Community service - 400+ hours

Experience

Full Stack Developer • Genesys • 2019
- Implemented **microservices** using the **.NET** core and **Restful APIs.**
- Developed **Prometheus** prototype to monitor health and usage of Genesys Voice Platform running in **Docker** containers deployed on **Amazon ECS**.
- Designed and implemented **python** script to gather and visualize data regarding system crashes with backtraces and send emails to those involved.

Operations Executive • Robotics Club • 2017-18
- Organized and coordinated the club's 80+ members to compete in the VEX Robotics competition.
- Served as club representative for sponsorships, acquiring over $10K.
- Competed in Vex Robotics as team leader, coming in 6th place out of 110 competitors.

Projects

Bump • Hack the Valley (U of T) 1st place
Google Cloud Vision API, Twilio API, HTML parser, Firebase
- A "smart-braille" IoT project that empowers the visually impaired by using solenoids to display braille.
- Displays SMS messages, road signs, and webpages in braille

BreadCrumbz • UOttawa Hacks 4th place
NodeJS, Express, MDBoostrap, Google Maps API, Twilio API
- Designed a **web app** that makes volunteering convenient and rewarding
- Integrates the delivery of surplus supermarket produce to homeless shelters into your commute

Particles Collision • Personal Project
- Created an application that efficiently simulates the motion of balls in a closed 2-D container.
- Implemented an event driven **priority queue** using a **binary heap** in **C#** using **.NET framework**.
- Designed **graphics** using **Windows Forms**.

Casinorama • Final Design Project
- Designed and created a virtual casino, consisting of Poker, Roulette, and Blackjack in **Java**.
- Used **object-oriented** programming to organize code and design data structures.
- Designed graphics using **JavaFX framework**.