Anthony Lau

University of Waterloo Computer Engineering

anthonylau.me
am2lau@uwaterloo.ca
github.com/AnthonyMLau
linkedin.com/in/anthonylau3

Skills

Languages

Tools/Frameworks

Git, Mercurial, Docker, Jira, Jenkins, Bash, Android Studio

Awards

Hack The Valley (U of T) • 2019
1st place out of 50 teams

Genesys Hackathon • 2019
2nd place out of 35 teams

Make U of T • 2019
2nd Place of 70 teams

UOttawa Hacks • 2019
4th place of 75 teams

President's Scholarship • 2018
Awarded for over 90% admission average.

Nortel Networks Undergraduate Scholarship • 2018
Awarded for outstanding academic performance and extracurricular activities involvement.

Duke of Edinburgh - Silver • 2018
A year long program focused on community improvement and personal growth.

Extracurricular

Relay for Life • 2018
Helped raised over $100K for the Canadian Cancer Society

DECA • 2015 - 2018
Case competitions at the provincial level

Royal Conservatory of Music • 2018
Piano level 8 1st class honours

Experience

Full Stack Developer • Genesys • Jan – Apr 2019

- Aided in the implementation of **microservices** using **MVC** architecture for an interactive recording platform using **C# ASP.NET core** and **Restful APIs.**
- Developed a **monitoring protype** using Prometheus to collect health and usage metrics from **100+ deployments** of the Genesys Voice Platform
- Deployed Prometheus on **Docker** containers running on Amazon **ECS**.
- Designed and implemented **Python** script using **MatPlotLib** to gather and visualize system crash data, notifying those involved by email.
- Implemented a **chatbot** that analyses user input, helps with debugging code and is capable of Jira ticket linking, wining **2nd** in the company's hackathon.

Operations Executive • Vex 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** out of 100+ teams.

Projects

Bump • Hack the Valley (U of T) **1st place**

- Tools: 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 (Twilio), road signs (GCP), and webpages in braille.

BreadCrumbz • UOttawa Hacks **4th place**

- Tools: NodeJS, Express, MDBoostrap, Google Maps API, Twilio API
- A **web app** that facilitates the delivery of surplus produce from grocery stores to homeless shelters.
- Implemented **microservices** using **Node.js** that connect drivers, food centers and shelters allowing for delivery **requests** and **verification**.

Particles Collision • Personal Project

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

Casinorama • Personal 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**.