

EXPERIENCE

Full Stack Developer

TobyX

09/2018 – Present

Waterloo, Ontario

TobyX is a hotel solution digitizing aging hotel infrastructure, tobyx.io

- Created a Facebook Messenger bot system, giving our clients a robust virtual assistant for communicating with their guests, removing the need for high-cost call centers
- Made with **AWS Lambda** and object-oriented **JavaScript** allowing for high performance, scalability, and easy maintenance

Software Developer

Waterloop

09/2018 – Present

Waterloo, Ontario

University of Waterloo's SpaceX Hyperloop challenge team, teamwaterloop.ca

- Created the logging infrastructure for the central control unit, enabling the team to have persistent data collection for diagnostic review, debugging, and testing of all attached sensors
- Designed and developed with **SQLite3** and **C++** in an **Agile** development environment

Web Developer

Don Mills C.I. Library

09/2017 – 06/2018

Toronto, Ontario

- Created SchedMgr, an online application that digitizes how volunteer hours are tracked and awarded, decreasing required librarian hours by 85% to only 5 minutes per semester
- Created using a **Linux**, **Apache**, **MySQL**, **PHP (LAMP)** stack that utilizes **JavaScript AJAX** calls to query the backend API

AWARDS AND ACHIEVEMENTS

WorldSkills 2019 Team Canada Prospect

1 of 2 Team Canada Candidates in the upcoming WorldSkills 2019 competition in Kazan, Russia for Web Development

Gold Medalist - Skills Canada (2017 – 2018)

Two time national gold medalist in Web Design and Development

Top Ranking Secondary Competitor - Skills Ontario

Achieved the highest score in the technology sector across all secondary competitors in Canada's largest skilled trade and technology competition

Colonel Hugh Heasley Engineering Scholarship

Recipient of \$10,000 scholarship awarded to outstanding students entering first-year studies in the Faculty of Engineering at the University of Waterloo

EDUCATION

Candidate for BSc Computer Engineering

University of Waterloo

09/2018 – 06/2023

GPA: 82%

PROGRAMMING LANGUAGES

JavaScript

C/C++

PHP

HTML/CSS

SQL

Node.js

Java

C#

TECHNICAL SKILLS

Linux

Docker

Git

Apache/Nginx

REST API

JSON

Server Administration

Eclipse

Visual Studio

Unity3D

PROJECTS

Continuum

Hack the North 2018 (Winner)

09/2018

- Built a 2D puzzle game set in 3D space using **Unity3D** and **C#**
- Lead my team in the creation of a truly unique game, allowing us to win at Canada's largest hackathon consisting of over 1000 Participants
- Made by rendering a 2D cross-section of the world and only allowing the player to control their 3D rotation and movement in two restricted axis

LaFi

MasseyHacks III (1st Place)

04/2017

- Created a data transmission device with **C++** and a pair of **Raspberry Pi's** that rapidly blink lasers to transfer binary data over the air
- Finished 1st Place in Canada's largest MLH high school hackathon

IdeaShare

Hack the North 2016 (Winner)

09/2016

- Made an online platform for idea distribution with **Bootstrap** and **JavaScript**, and utilizes **AJAX** requests to query our **Java**-based TextRazor NLP backend
- Maintained **Docker** containers with Compose Orchestration and configured **Nginx** and **MariaDB** servers
- Recognized as Top 12 Winners by a panel of industry-leading judges