

## EDUCATION

**University of Waterloo**  
Candidate for Bachelor of  
Mathematics 2021

## SUMMARY

- Three years of programming experience, proficient in Python and Java
- Familiar with object-oriented programming and agile methodology
- Emacs enthusiast

## LANGUAGES AND TECHNOLOGIES

Java, Python, HTML, CSS, Git, JavaScript, jQuery, Linux, Bash, Jira, Jenkins, Selenium, Racket

## EMPLOYMENT

### IMAGINE COMMUNICATIONS

Automation Developer

Toronto, ON  
May 2017 to Aug 2017

- Created a library and regression testing scripts for setting and verifying parameters using **Python** and **Jenkins**
- Implemented continuous integration strategies for a new product, created library interfaces and code structure
- Developed a library for capturing, transferring and analyzing packets from a remote server using **Python**
- Developed a script to automatically create a documentation website for our Git repository using **Sphinx** and **Jenkins**

### UPWORK

Freelance Developer

Toronto, ON  
Jun 2017 to Aug 2017

- Created web scraping and data collection scripts using Python libraries including **scrapy** and **Selenium**
- Developed a program to parse a CSV file from Box and enter the content into Stratics using their **APIs**
- Developed a **Python** program to generate a sports league website using **HTML** and **CSS** from Excel data
- Implemented proxy support for an automation script to fill out user forms using **Python** and **httplib**

### SUPERIOR POOL SPA & LEISURE LTD.

Lifeguard

Toronto, ON  
Jun 2015 to Sep 2016

- Directly responsible for ensuring the safety of patrons and communicating safety rules
- Demonstrated effective communication skills through the explanation of rules to patrons
- Developed attention to detail by maintaining healthy pool chemical levels

## PROJECTS

### SNAPCACHE (HACK THE NORTH) - ANGULARJS, FIREBASE

Sep 2017

- Social media platform for users to take a photo and associate the photo with a location
- Utilizes dynamic realtime mapping to display photos as markers using the **Google Maps API**
- Created a web app using an **AngularJS** frontend and a **Firebase** backend

### MOODIFY - ANDROID, JAVA

Mar 2017

- Utilizes the **Google vision API** to analyze a picture
- Developed an algorithm to identify a mood based on the colors in the picture
- Recommends a Spotify playlist corresponding to the mood
- Winner of StartHacks 2017

### WATERLOO WORKS CHROME EXTENSION - JAVASCRIPT

Jan 2017

- Improved usability on Waterloo Works through manipulating **HTML DOM** by removing clutter
- Reduced average time spent on Waterloo Works by 1 minute for 50+ users

### PAINT PROGRAM - JAVA

Apr 2016

- Implemented **object-oriented programming** by using **inheritance** and **polymorphism**
- Shapes inherits properties such as coordinates from an abstract shape object
- Used a stack to implement undo and redo features