

# Alex Foley

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## Experience

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### Yahoo! Fantasy Sports

Sunnyvale, California

SOFTWARE ENGINEERING INTERN

May 2017 - August 2017

- Designed and implemented new notification types on **Apache Storm** infrastructure to drive users back into Yahoo apps
- Improved notification suite by architecting a second method for processing and sending notifications, eliminating duplicates
- Wrote **Python** script to reduce a complex build process down to a single command, saving time and effort

### Ontario Table Tennis Association

Waterloo, Ontario

WEBMASTER/IT CONSULTANT

June 2015 - August 2016

- Replatformed and maintained the Ontario Table Tennis website in WordPress to improve usability
- Designed and wrote **Python** scripts for content migration and automation, saving hours of manual work
- Created FormCraft online forms including club membership applications, expense forms, and tournament registration to make the processes easier for users and administrators

## Projects

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### Handy Signbot

Montréal, Québec

MCHACKS 2017 - FIRST PLACE

- Created a pair of robotic hands in 24 hours that helped bridge the communication gap between English speakers and American Sign Language users
- Users could speak English which was then translated and signed by the hands in ASL
- Used a **Node.js** server and **Arduino** controllers to operate servos controlling robotic hands
- Featured by **Arduino**, **Hackaday**, **Hackster**, and **Makery**

### Sandwich-o-matic

Peterborough, Ontario

ECHACKS 2016 - BEST HARDWARE HACK

- Created an automated IOT sandwich-maker with voice control, in 36 hours
- Users could say "make me a sandwich with [toppings]" and the machine toasted the bread, dispensed the toppings, and made the requested sandwich
- Created the embedded software (**Photon** and **Arduino**) to process requests and facilitate all of the servo/motor movements to create the sandwich
- Featured by **Arduino**, **Gadgetify**, and **Hackaday**

### timber

Waterloo, Ontario

WATERLOO CODEFEST OPENDATA HACKATHON - FIRST PLACE

- Mobile application that allowed Waterloo residents to connect with each other through trees, created in 36 hours
- Users can schedule meetups, vote on trees, and report any required maintenance to the city
- Worked on the back-end, including integrating **Firebase** functionality with the **Javascript** front-end

## Skills

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- Proficient in **Python**, **Java**, **JavaScript**, **Racket**, **HTML/CSS**, **SQL**, **C++**
- Experience with **Android**, **Apache Storm**, **Arduino**, **Firebase**, **Photon**, **Wordpress**

## Education

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### University of Waterloo

Waterloo, Ontario

BACHELOR OF COMPUTER SCIENCE (CO-OP)

2016 - 2021

## Awards/Achievements

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2017	<b>1st/15 Teams</b> , Google Games Waterloo	Waterloo, Ontario
2017	<b>4th/30 Teams</b> , Bloomberg Code B AI Challenge	Waterloo, Ontario
2016/17	<b>Member</b> , University of Waterloo Table Tennis Competitive Co-ed A-Team	Waterloo, Ontario
2016	<b>Recipient</b> , University of Waterloo Faculty of Mathematics Entrance Scholarship	Waterloo, Ontario