

Alex Foley

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Skills

- Proficient in **Python, Java, JavaScript, Racket, HTML/CSS, SQL, C++**
- Experience with **Android, Apache Storm, Arduino, Firebase, Photon, Wordpress**
- Excellent communication, problem solving, and collaboration skills with ability to work independently

Education

University of Waterloo

Waterloo, Ontario

BACHELOR OF COMPUTER SCIENCE (CO-OP)

2021

Experience

Yahoo! Fantasy Sports

Sunnyvale, California

SOFTWARE ENGINEERING INTERN

May 2017 - August 2017

- Worked with **Java Apache Storm** implementation to deliver scalable, distributed solutions
- Designed, implemented, and shipped multiple new types of notifications to drive users back into Yahoo apps
- Improved current notification suite by architecting new method for processing and sending notifications
- Wrote **Python** script to make complex building process faster and simpler

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

Handy Signbot

Montreal, Quebec

McHACKS 2017 - FIRST PLACE

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

Sandwich-o-matic

Peterborough, Ontario

EC HACKS 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

Awards/Achievements

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| 2017 | Winner , Google Games Waterloo | Waterloo, ON |
| 2016/17 | Member , University of Waterloo Table Tennis Competitive Co-ed A-Team | Waterloo, ON |
| 2016 | Recipient , University of Waterloo Mathematics Entrance Scholarship | Waterloo, ON |
| 2016 | Finalist , Andrew Rok Foundation Scholarship | Toronto, ON |