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
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

Awards/Achievements

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