

# Alex Foley

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## Skills

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- Proficient in Python, Java, JavaScript, Racket, HTML/CSS, C++
- Experience with: Android, Arduino, Firebase, jQuery, and WordPress
- Excellent communication, problem solving, and collaboration skills with ability to work independently

## Education

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### University of Waterloo

*Bachelor of Computer Science (Co-op)*

**Waterloo**

2021

## Experience

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### Webmaster/IT Consultant

*Ontario Table Tennis Association*

**Waterloo**

*July 2015 – August 2016*

- Replatformed and maintained the Ontario Table Tennis website in WordPress to improve usability
- Evaluated and customized WordPress templates to create a responsive site
- 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

### Lab Assistant

*Waterloo Region District School Board*

**Waterloo**

*September 2014 – June 2016*

- Maintained and cleaned the science classrooms, preparation rooms, and equipment
- Prepared labs for science classes and clubs
- Helped train new lab assistants

## Projects

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### timber

**HTML/CSS, JavaScript (jQuery), Cordova, Firebase**

*Waterloo CodeFest: 1st Place*

- Mobile application that allows Waterloo residents to connect with each other, through trees
- 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 front-end

### Sandwich-o-matic

**Arduino/Photon, Hardware Components**

*ECHacks: Best Hardware Hack*

- Automated IOT sandwich-maker with voice control, featured by [Arduino](#) and [Hackaday](#)
- Users can say "make me a sandwich with [toppings]" and the machine toasts the bread, dispenses the toppings, and makes the requested sandwich
- Created the embedded software to process requests and facilitate all of the servo/motor movements to create the sandwich

### Intercode

**HTML/CSS, JavaScript (jQuery), Firebase**

*hack.summit(): Top 100*

- Web application that teaches how to program in a fun, interactive way
- Users indicate interests and learn to program in Python, earning points and unlocking levels as they go
- Designed lessons and worked on the back-end, including creating lesson verification and integrating Firebase functionalities with the front-end

## Awards/Achievements

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**Sir John A. Macdonald Gold Medal Award:** Awarded to the student with the highest average in his/her top six grade twelve courses at Sir John A. Macdonald Secondary School.

**University of Waterloo Math Entrance Scholarship: \$10 000,** Awarded to students entering the Faculty of Mathematics, based on previous contest scores and academic performance.

**University of Waterloo Table Tennis Team Member:** Member of the Co-ed A Team that plays in table tennis tournaments against other universities from Canada and the US.