

Alex Foley

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Experience

Wish

San Francisco, California

SOFTWARE ENGINEERING INTERN

Jan 2018 - April 2018

- Created Python crons and internal tools to automate merchant notification processes, **increasing the number of trackable packages on Wish by 10%**
- Cut running time for tracking crons **from 4 hours to 45 minutes** by optimizing them to run in parallel
- Integrated new tracking source into Wish platform, cutting tracking costs by **up to 80% per package**
- Won internal 13-hour hackathon by **automating the approval of 36% of tracking disputes**, cutting the cost of previously manual labour

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 user-based method for processing and sending notifications**, eliminating duplicates that would result from the existing team-based method
- Wrote Python script to reduce a complex build process down to a single command, **saving the team 2.5 hours daily**

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**

Projects

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**

Skills

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

Education

University of Waterloo

Waterloo, Ontario

BACHELOR OF COMPUTER SCIENCE (CO-OP)

2016 - 2021

Awards/Achievements

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