

Experience _____

Microsoft - Teams

Redmond, Washington

SOFTWARE ENGINEERING INTERN

August 2018 - December 2018

- · Built-out new communications architecture to support upcoming feature in Microsoft Teams, decreasing bytes over wire by 92%
- · Wrote GraphQL resolvers in TypeScript to handle requests routed through the new architecture
- Designed and built-out flighting solution for new architecture, allowing requests to be routed through new and old communication
 paths with high configurability

Wish San Francisco, California

SOFTWARE ENGINEERING INTERN

January 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 manual labour

Yahoo! - Fantasy Sports

Sunnyvale, California

SOFTWARE ENGINEERING INTERN

May 2017 - August 2017

- Designed and implemented new notification types on distributed 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

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, C++, JavaScript, Racket, GraphQL, HTML/CSS, SQL
- · Experience with Android, Apache Storm, Arduino, Docker, Firebase, MongoDB, Photon, Tornado

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