

# Addie Guo

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## Education

### University of Waterloo

B.S. in Computer Science

**Expected Apr 2021**

Waterloo, Canada

- Relevant coursework: Object Oriented Programming, Algorithms and Data Structures, Operating Systems, Compilers, Concurrent and Parallel Programming, Computer Security and Privacy, Artificial Intelligence, Statistics I & II
- President's Scholarship of Distinction

## Experience

### Facebook

Software Engineer Intern, Places Search

**Jan - Apr 2020**

New York, NY

- Migrated Travel To suggestions to modern Location Tagging infrastructure, decreasing failure rate by 25%
- Reduced number of queried searches by 15% by adding personalizations to improve queryless state of Travel To
- Filtered out "junky" and duplicate places in Travel To search results, improving accuracy of location tags by 40%
- Increased performance metrics by 5% by implementing a twiddler to uprank local businesses in search results
- Contributed to team code review, architectural design decisions, and the analysis of system performance metrics

### Splunk

Site Reliability Engineer Intern, Cloud SRE

**May - Aug 2019**

San Francisco, CA

- Built Cloud stack using Terraform to evaluate metrics of new EC2 instance, showing potential cost reduction by 20%
- Improved testing framework by using Vagrant to create virtual Splunk instances, increasing efficiency for 30+ SREs
- Migrated Cloud stacks to integrate Thruk and Nagios for monitoring, reducing escalations by 35%

### SelfMade Co.

Software Engineer Intern, Product Team

**Sep - Dec 2018**

New York, NY

- Visualized and analyzed statistics by generating graphs using Chart.js, increasing client retention rate by 45%
- Integrated with AWS CloudWatch to run daily cron jobs that ensure customer payment information stays up-to-date
- Improved merchant sales by over 30% by developing a Shopfiy app that displayed an analytics dashboard for ads

### University of Waterloo

Undergraduate Researcher, HoloClean Project

**May - Aug 2018**

Waterloo, ON

- Collaborated with Professor Ihab Ilyas on a statistical inference engine that automatically cleans datasets
- Implemented interactive user feedback to judge correctness of the engine's predictions, improving accuracy by 10%

### Maple Leaf Foods Inc.

Software Engineer Intern, Digital Innovation Team

**Jan - Apr 2018**

Mississauga, ON

- Integrated NLP into a chat bot using Microsoft LUIS, increasing precision by 15% and detail of the bot's responses

## Projects

### Walk Don't Run 🏃

HTML/CSS | jQuery | JavaScript | Node.js | Express.js

- Finds the safest and shortest routes for women walking alone at night using SpotCrime API and Dijkstra's algorithm
- Winner of the Most Technically Difficult prize at WicHacks 2018

### BuildAR 🏠

Java | ARCore | Node.js | StdLib | MongoDB

- Built an Android app that uses augmented reality software to expedite assembling furniture at home
- Winner of the Best Use of StdLib prize at HackPrinceton Spring 2018

## Skills

- **Languages:** C++, Python, Java, C, Bash, PHP, R, JavaScript, HTML, CSS
- **Infrastructure:** Docker, Jenkins, Ansible, Terraform, Puppet, Thruk, Nagios, Vagrant, Meteor
- **Full Stack:** React, Node.js, Flask, AngularJS, Redux, jQuery, MySQL, MongoDB, PostgreSQL
- **AWS:** EC2, S3, CloudWatch, Lambda, ECS, DynamoDB, EBS, CloudFormation, RDS