# Addie Guo

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## Education

**University of Waterloo**                                                                  *Expected Apr 2021*
*B.S. in Computer Science*                                                                    *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

**Twitter**                                                                                           *Aug - Dec 2020*
*Software Engineer Intern, Trends & Events Detection*                                             *New York, NY*
- Improved health of public conversation by 10% by filtering out toxic, spammy and abusive trends
- Designed and implemented infrastructure to more accurately calculate health scores for trends
- Integrated Slack alerts for risky trends to signal curators, reducing unhealthy public conversation by 5%
- Contributed to team code review, architectural design decisions, and the analysis of system performance metrics

**Facebook**                                                                                          *Jan - Apr 2020*
*Software Engineer Intern, Places Search*                                                        *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

**Splunk**                                                                                            *May - Aug 2019*
*Site Reliability Engineer Intern, Cloud SRE*                                                    *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.**                                                                                      *Sep – Dec 2018*
*Software Engineer Intern, Product Team*                                                         *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

**University of Waterloo**                                                                            *May – Aug 2018*
*Undergraduate Researcher, HoloClean Project*                                                    *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.**                                                                             *Jan – Apr 2018*
*Software Engineer Intern, Digital Innovation Team*                                              *Mississauga, ON*
- Integrated NLP into a chat bot using Microsoft LUIS, increasing precision by 15% and detail of the bot's responses

## Projects

**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, Scala, 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