

# Addie Guo

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## SKILLS

### LANGUAGES

C++ • Python • C • C# • Java  
JavaScript • SQL • Swift

### FRONTEND

HTML5&CSS3 • jQuery • Angular  
React • Bootstrap • Three.js

### BACKEND & DATABASE

Flask • Node.js • MongoDB  
Firebase • MySQL

### TOOLS & FRAMEWORKS

Git • Bash • Ruby on Rails  
Django • .NET • Entity • Express.js

### AZURE

Computer Vision • Cognitive Services  
Language Understanding

## EDUCATION

### UNIVERSITY OF WATERLOO

#### BS IN COMPUTER SCIENCE

Expected Apr. 2021

President's Scholarship of Distinction

## LINKS

addieguo.com  
github.com/a-guo  
linkedin.com/in/addieguo  
devpost.com/aguo

## COURSEWORK

Object Oriented Software Development  
Computer Organization & Design  
Data Structures & Data Management  
Foundations of Sequential Programs  
Communications in Computer Science  
Statistics

## INTERESTS

Hackathons  
Sketching • Oil Painting  
Ukelele & Guitar  
Basketball • Soccer • Volleyball  
Skating • Snowboarding  
Alpine Skiing • Swimming

## EXPERIENCE

### RESEARCH ASSISTANT | UNIVERSITY OF WATERLOO

May 2018 – present | Waterloo, ON

- Collaborated with small team on HoloClean: A Machine Learning System for Data Enrichment

### SOFTWARE DEVELOPER | MAPLE LEAF FOODS INC.

Jan. 2018 – Apr. 2018 | Mississauga, ON

- Enhanced authenticity of user experience by integrating Microsoft LUIS for NLU into a chat bot created with Microsoft Bot Framework
- Enforced stricter accessibility rights to ensure protection of data by implementing multi-step authentication process using ASP.NET MVC
- Increased flexibility, ease of data management, and cost efficiency by migrating data from SQL server to NoSQL server on Microsoft Azure
- Minimized sign-in/sign-out time by 30% by implementing computer vision for facial recognition on iOS app that manages entry & exit of visitors

## PROJECTS

### BUILDAR

Java | ARCore | Node.js | StdLib | MongoDB

- Android app that uses AR to redefine the at-home furniture assembly process
- Winner of the Best Use of StdLib prize at HackPrinceton Spring 2018

### CHECK.MATE

C++

- Console chess game that is played against an in-built chess engine, created using Alpha-beta pruning and the Minimax algorithm

### WALK DON'T RUN

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

- Web app that uses SpotCrime API, weighted graphs, and Dijkstra's shortest path algorithm to find the safest path from point A to B
- Winner of the Most Technically Difficult prize at WicHacks 2018

### CHESSMASTER

C++ | SFML Graphics

- Console chess game that uses SFML graphics for visual effects, played against Stockfish AI

### EXO.LOVE

Python | OpenCV

- Web image scraping bot that uses OpenCV classifiers to sort group pictures through facial recognition

## AWARDS

|      |                                      |                            |
|------|--------------------------------------|----------------------------|
| 2018 | Best Use of StdLib                   | HackPrinceton Spring 2018  |
| 2018 | Most Technically Difficult           | WicHacks 2018              |
| 2015 | Certificate of Distinction (top 25%) | Euclid Mathematics Contest |