



# Matthew Walinga

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 walinga.github.io

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## EDUCATION

### University of Waterloo

Bachelor of Mathematics in Computer Science  
2015 - 2020 (expected)

## EXPERIENCE

### Software Developer

Flipp | Toronto, ON | Sep 2017 - Dec 2017

- Implemented a script to collect location data using the Google Maps API which saved 2-5 hours of manual work per week
- Created and maintained over 200 unique web data extraction modules written in Ruby on Rails
- Won the Halloween contest with a team costume inspired by Up

### Software Developer

JSI Telecom | Kanata, ON | Jan 2017 - Apr 2017

- Increased persistence speed by 90% with a scalable cache in C#
- Strengthened build stability by validating naming conventions of constants using Ruby
- Automated database integrity checks with a tool made in Java

### Backend Software Developer

Rave Inc. | Kitchener, ON | May 2016 - Aug 2016

- Designed a feature to update badges for over 50,000 app users
- Cached user data with Redis to prevent excessive database calls
- Accelerated speed of location queries by translating SQL to Solr

## PROJECTS

**Double-U** Programming language written in Ruby that performs various non-deterministic and statistical operations

**Chess AI** A complex chess bot, written from scratch in python, that uses minimax and alpha-beta pruning to decide on the best move

**ReadAR** AR Web app designed to gamify childhood literacy that detects correct pronunciation using Google Speech-to-Text

## LANGUAGES

Ruby  
Python  
C / C++  
Scala  
C# / .NET  
Java  
OCaml  
Go  
Clojure  
Javascript

## TOOLS

Git  
Bash  
Rails  
Flask  
Redis  
Visual Studio  
IntelliJ  
L<sup>A</sup>T<sub>E</sub>X

## AWARDS

CN Scholarship  
John Evans Memorial  
Award  
President's Scholarship

## ACTIVITIES

Hackathons  
Chess Tournaments  
Bouldering  
UW Concert Band