



Matthew Walinga

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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^AT_EX

AWARDS

CN Scholarship
John Evans Memorial
Award
President's Scholarship

ACTIVITIES

Hackathons
Open Source
Concert Band
Bouldering