

MATTHEW WALINGA

SOFTWARE DEVELOPER

Contact

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📍 walinga

Education

University of Waterloo
BMath (Computer Science)
2020

Languages

PROFICIENT	FAMILIAR
Python	Java
Scala	R
Git	C#/.NET
Bash	SQL
C/C++	Clojure
Go	JavaScript

Competitions

Hack the North
Small c Competition
Canadian Team Mathematics
Competition
Euclid Contest
Canadian Intermediate
Mathematics Contest

Volunteering

Link Crew, *Link Leader*,
Aug 2013 - Jun 2015
Advanced Placement Events,
Greeter/Assistant,
Nov 2012 - Nov 2014
YMCA, *Maintenance Worker*,
Jul 2012 - Aug 2012

Summary

- Experience with functional, imperative, and object-oriented programming
- Excellent problem-solving skills and a strong grasp of mathematical and computer science related concepts
- Strong interpersonal and organizational skills

Employment

WeMesh Backend Software Developer	Kitchener, Ontario May 2016 - Aug 2016
<ul style="list-style-type: none">• Programmed backend servers for the WeMesh app using Scala and Go• Regularly maintained various WeMesh VM's and kubernetes clusters• Designed a program to periodically update badges for thousands of users• Translated PostGIS queries to Solr for scalability and efficiency• Cached user data with Redis to prevent excessive database calls	

Contract Testing, Inc. Server	Brampton, Ontario Jul 2014 - Aug 2015
<ul style="list-style-type: none">• Gained experience working in a pressure-filled environment• Satisfied customer issues effectively• Ensured that customers received their food in a timely manner	

Projects

Chess AI

- A Python chess bot that uses complex logic to decide on the best move
- Fully working user interface written in pygame
- Implementation includes Minimax with alpha-beta pruning

Streetrep

- A social network that allows users to post information about locations
- Makes use of Firebase as well as the Google Maps API
- Backend written in Node.js

Unit Converter

- A C program that converts values between metric units

Awards

CN Railway Company · CN Generation Scholarship Received for pursuing a career in a CN-related field	Jan 2016
Central Peel SS · John Evans Memorial Award Received for obtaining the highest mark in Physics	Oct 2015
University of Waterloo · President's Scholarship Received for maintaining an average of above 90%	Sep 2015