MATTHEW WALINGA

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EXPERIENCE

Software Developer

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

- Improved end-user experience by building a data cache in C#
- Augmented build stability by writing a validation script in Ruby
- Increased productivity by developing a database consistency tool in Java
- Applied design thinking approach while working in an Agile enviroment

Backend Software Developer

Rave Media Inc.// Kitchener, ON // May - Aug 2016

- Designed a program to update badges for over 50,000 users
- Cached user data with Redis to prevent excessive database calls
- Created an API to access a third-party VoIP client using Go
- Accelerated speed of location queries by translating SQL to Solr

PROJECTS

Chess AI

- A chess bot written in Python that uses the minimax algorithm to decide on the best move
- Features a fully working UI with support for advanced chess features such as draw-by-repitition

Rapatronics

- Android app that uses natural-language processing to suggest rhyming lyrics to a user's rap
- Backend built with Flask, NLTK, Indico, and Google Speech-to-text API's

EDUCATION

University of Waterloo

Bachelor of Mathematics in Computer Science
Expected 2020

LANGUAGES

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

TOOLS

Git
Bash
Flask
Visual Studio
IntelliJ
LaTeX

AWARDS

CN Scholarship

John Evans Memorial Award

President's Scholarship

ACTIVITIES

Hackathons
Small c Math Contest
Teaching Assistant
Tennis Club
Chess