

Matthew Walinga

matthew.walinga@gmail.com | github.com/walinga | in/matthewwalinga

Education

University of Waterloo ~ BMath Computer Science 2020 ~ GPA: 3.7

Experience

January 2017 - Present

Software Developer | **JSI Telecom** | Kanata, Ontario

- Increased productivity by developing a database consistency tool in Java
- Improved end-user experience with various UI changes made in C# & Xaml
- Increased build stability with a self-written validation script in Ruby
- Participated in an Agile/Scrum work environment

May 2016 – August 2016

Backend Software Developer | **WeMesh** | Kitchener, Ontario

- 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

Projects

Chess Bot | **Personal side project**

- A Python chess bot that uses Minimax and alpha-beta pruning to decide on the best move
- Fully working user interface written in pygame, and support for various types of draws

Rapatronics | **QHacks 2017 Contender**

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

Skills

- **Languages:** Python, C, C++, C#, Ruby, Scala, Java, Go, Clojure
- **Tools:** Git, Bash, Flask, Visual Studio, IntelliJ, LaTeX