JOHN MA

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SUMMARY OF QUALIFICATIONS

- **Technical Skills:** Ruby on Rails, Java, C, C++, C#, JavaScript, jQuery, Python, TensorFlow, Docker, SQL, NodeJS, Swift, Unity, Bash
- **Passionate developer** with projects involving a variety of frameworks, APIs and languages

WORK EXPERIENCE

Open Source Integrations Developer
September 2018 - December 2018

Blindside Networks Inc.
Ottawa, ON

- Integrated **over 30 new features** to [Greenlight/](), a front end interface for a web conferencing API with **thousands of concurrent users**
- Added server mockups, stubs and test cases to **achieve approximately 90% code coverage**
- Implemented several backend scripts in Ruby for a major LTI integration with the Moodle LMS

Quality Engineering Software Developer
September 2017 - December 2017

IBM - Canada Lab
Ottawa, ON

- Maintained the continuous integration testing system for Cognos Analytics
- **Proposed, developed and demoed** an automated installation/configuration tool for the system, **increasing setup efficiency by 75%** on all new VM environments
- Verified the functionality of all Cognos BI components across all cloud testing servers

PROGRAMMING PROJECTS

Web Development
[Ruby on Rails, jQuery, NodeJs, Wicket, SQL, Java]

- Contributed and wrote code for **several web apps using a variety of different frameworks**
- Implemented many webpages that read/write to a large SQL database which **stores data for over 1000 users** in an app targeted towards teaching Latin courses
- [The Alpheios Project/]() [Personal Website (link above)/]() [OCAC Badminton/]() [Feridun-Bot/]()

Machine Learning
[Python, Tensorflow, NumPy]

- [TH11Bot/]() - Created a functional neuroevolving algorithm using **self made python libraries** and the **NEAT encoding scheme** to beat **Touhou 11 Stage 1** on hard difficulty
- [Yikes-lolinator/]() **-** Implemented an **LSTM chat generator** to mimic user speech patterns using the Tensorflow API. Predicted with an accuracy of **86%** on a test set of **3000** discord messages

Other Projects
[Python, Node.js, Android Studio, Java, Swift]

- [Factor+/]() - An educational math game for iOS that placed **1st in the TechU 2016 AppJam**
- [PyRemote/]() **- Lead a team of three members** to make an Android application that allows the user to gain full control of a host operating system and issue commands by voice

EDUCATION

University of Waterloo
Waterloo, ON

Candidate for Bachelor of Computer Science (BCS)
Expected June 2021

ACTIVITIES

- Game Development Club (GDC)/UW Piano Association/UW Badminton Club/Sogo Club