

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, Xcode, Unity, Bash, Android Studio, Bootstrap, HTML5, CSS3
- **Passionate developer** with interests and projects involving a variety of frameworks, APIs, concepts 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
- Configured new OAuth flows across all internal applications via loadbalancer configuration
- Added server mockups, stubs, test cases and increased code coverage to approximately 90%
- 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 using Java and SQL, increasing setup efficiency by 75% on all new VM environments
- Reconfigured the system for parallel execution over multiple releases and deployments
- 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 (via Hibernate ORM) 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 semi-functional neuroevolving algorithm using custom python libraries and the NEAT encoding scheme to beat Touhou 11 on hard difficulty
- [Yikes-lolinator/](#) - Implemented an LSTM chat generator to mimic user speech patterns using the Tensorflow API. Achieved an accuracy of 92% on a test set of 900 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

Candidate for Bachelor of Computer Science (BCS)

Waterloo, ON

Expected June 2021

ACTIVITIES

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