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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** 

Blindside Networks Inc.

September 2018 - December 2018 Ottawa, ON

- Integrated over 30 new features to <u>Greenlight</u>/, 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

Ottawa, ON

IBM - Canada Lab

- 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]

- <u>TH11Bot</u>/ Created a functional neuroevolving algorithm using **self made python libraries** and the **NEAT encoding scheme** to beat **Touhou 11 Stage 1** on hard difficulty
- <u>Yikes-Iolinator</u>/ 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
- <u>PyRemote</u>/ 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