

JL2MA@edu.uwaterloo.ca (613) 265 2168 (809 Mancuso Court, Ottawa, ON https://github.com/jiama843 (http://jiama843.github.io/jialong

SUMMARY OF QUALIFICATIONS

- **Technical Skills:** Java, C, C++, C#, HTML5, CSS3, JavaScript, Swift, Xcode, Unity, Scheme, Bash, Python, Git, Android Studio, SQL, Wicket, Bootstrap, Node.js
- Passionate developer with interests and projects involving a variety of different software frameworks, APIs, concepts and languages
- Collaborator and leader within teams of considerable size

WORK EXPERIENCE

Quality Engineering Software Developer

IBM - Canada Lab

September 2017 - December 2017 Ottawa, ON

- Monitored/maintained the continuous integration testing system for Cognos Analytics
- Proposed and developed an automated installation/configuration tool for the system using Java and SQL, increasing setup efficiency by 75% on all new VM environments
- Logged defects against product failures, reconfigured the system for parallel execution over multiple releases and optimized automated test cases
- Verified the functionality of all Cognos BI components across all cloud testing servers
- Troubleshooted issues arising from unsuccessful product builds

PROGRAMMING PROJECTS

Adjuveris/AlpheiosPlus - Web Application [Wicket, SQL, Java]

March 2017 - September 2017

- Contributed to a Web Application targeted towards universities teaching Latin courses alongside a team of over 30 members in an Agile development environment
- Implemented several webpages that read/write (via Hibernate ORM) to a large SQL database which stores data for over 1000 university students/professors
- Introduced a new UI design for displaying nested class notifications and assignments

Factor+ - Math Application for iOS [Swift, Xcode]

September 2015 - May 2016

- Successfully created an app targeted towards training grade 10 students to factor quadratics, working within a team of three members using Xcode and Swift
- Focused on UX, UI and coded all the algorithms for generating factoring questions, integrating components following an iterative development model
- Placed 1st in the TechU 2016 AppJam and won \$500 in prize money

PyRemote - Phone Application for Remote Desktop Access [Python, Node.js, Android Studio, Java]

February 2018

- Lead a team of three members to create an application for Android devices that allows the user to gain full control of a host operating system and issue commands by voice
- Proposed, conceptualized, planned the idea, and worked on bridging the connection between Android and Unix by establishing a connection via IPv4 using the socket.io server API for Node.js

2D Side-Scrolling Application for Android Devices [Android Studio, Java]

December 2016 - January 2017

- Created a side scrolling Android game with a custom game loop using Object Oriented concepts
- Implemented effective design patterns to increase maintainability and code sanitization

EDUCATION

University of Waterloo

Candidate for Bachelor of Computer Science (BCS)

Waterloo, ON Expected June 2021