

## **John Ma Computer Science Student at the University of Waterloo**

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**GitHub:** <https://github.com/jiama843> (Main)

### **Highlights of Qualifications**

- 5+ years of programming experience
- Considerable team working and communication skills accumulated by working on projects with multiple contributors
- Working knowledge of: Java, C, C# (Unity experience), HTML5 and CSS3, JavaScript, Swift, Xcode, Unity, Scheme, linux, Bash, a little bit of Python, Command-line, Git, GitHub, Git Bash, Android Studio, XML, SQL, Bootstrap, OOP
- Multilingual - Fluent in English and French

### **Education**

- Candidate for **Bachelor of [Computer Science] BCs**, University of Waterloo, Waterloo, Ontario, September 2016 - present

### **Relevant Experience**

#### **Programming Competitions**

- **Canadian Computing Competition 2016**
  - Completed several challenging coding questions in an allotted time of 2.25 hours while racing against numerous other participants nationally.
- **Hack Princeton 2017, Hack the Valley 2017**
  - Cooperated with 4 team members to innovate new software developments and showcase them
- **ECOO programming contest participant 2016**
  - Competed in teams of 4 to answer 5 several challenging coding questions in an allotted time of 3 hours against numerous other teams regionally.
- **TechU AppJam 2016 winner**
  - Cooperated with 3 group members to create an iPhone app with concise documentation and won \$500 in prize money

#### **Group Projects**

- ***Math application for iPhone 5s (Factor+)***
  - Successfully created a factoring-training app targeted towards grade 10 students for a client working with a team of three members using Xcode and Swift
  - Focused on UX, UI and coded all the algorithms behind the factoring questions
  - Acquired an understanding of the software development cycle, iOS development and team working skills

## Personal Projects

- **2D side scrolling application compatible with all mobile Android devices**
  - Created a side scrolling “runner type” Android game using Android Studio and Java
  - Made a custom game loop and implemented a variety of Object Oriented concepts
  - Accumulated knowledge of the android development process
- **Personal webpage** - Designed a Personal webpage for disclosing some personal information in HTML and CSS, using Bootstrap for formatting and some Javascript animations with plans to document future side projects using SQL.
- **Java Music library** - Implemented a fully functional music library, with an UI inspired by apple, using eclipse, Java and several IO text files to store data
- **Miscellaneous projects** - Coded some basic python and bash scripts for a jailbroken Siri hack organized by a 4 person team and currently working on an ongoing RPG project in Unity using C# for scripts.

## Development and Management

- Experience in writing Concept Plans, Project plans, Design Proofs and Design Documents, conducting Alpha tests and Beta tests including documentation and paper prototyping as well as storyboarding

## Work/Volunteer Experience

- **Holy Trinity HS Badminton club volunteer** - Dedicated 3 hours each week between 2013 to 2015 setting up nets and effectively managing schedules to allocate equal amounts of play time for all members of the club.
- **Library Volunteer** - Reorganized and maintained books for one hour every Tuesday and Thursday during 2012 - 2013

## Awards

- Canadian Senior Mathematics Contest Top 25% with Medal, 2016
- \$500 TechU AppJam prize, March 2016
- President’s Scholarship - University of Waterloo, Fall 2016

## Activities and Interests

- **Piano 2003 ~ Present** - 8+ years of Piano study with performance experience and theory with a hobby for composition and transcribing
- **Game Development 2014 ~ Present** - Member of the Game Development Club in 1A with experience in Unity, iOS and Android Dev.
- **Hackathon and Coding competition enthusiast 2014 ~ Present** - Actively willing to seek out and attend showcases of problem solving skill and software innovation