

Ben Ridder

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Technical Skills

- Proficient with object-oriented languages such as Objective-C, Go, and Python
- Solid understanding of data structures, algorithms, compilers, operating systems, and concurrency
- Competent with low-level programming and design in assembly and C
- Knowledgeable about computer architecture design and digital hardware design with VHDL and Verilog
- Comfortable in Linux, Mac OSX, and Windows development environments and tool-chains: xcode, BASH, GCC, Vim, Eclipse

Soft Skills

- Quick learner and knowledgeable in a variety of areas
- Focused and driven
- Comfortable with agile software development, extreme programming, and pair programming
- Familiar with product design and creating quality user experiences
- Experienced in interacting with clients and understanding requirements

Education

Candidate for B.A.Sc. Honours Computer Engineering Sept. 2008 - Apr. 2013
University of Waterloo, Waterloo, Ontario
Cumulative GPA: 88.0 - Dean's Honours List

Work Experience **iOS Software Engineer Intern**

Sept. 2012 - Dec. 2012

Square Inc., San Francisco, CA

- Developed and maintained Square Register on iOS
- Tested and debugged Square Register and Square Wallet before release to the Apple App Store.
- Rewrote item synchronization for improved performance and to support larger item sets
- Developed a test mobile application and server to test network latency between UDP, HTTP, and Web Sockets
- Created prototype features to demonstrate proof of concept ideas

Agile Software Engineer

Jan. 2011 - Dec. 2011

Xtreme Labs Inc., Toronto, ON

- Developed mobile applications for iOS, webOS, and Android
- Created and released iOS applications for CBC News and The Globe & Mail among others
- Forked native Android applications and added customizations to incorporate social features
- Managed project requirements and client expectations
- Employed agile methodologies and tools for product development
- Collaborated closely with engineers and co-op students with pair programming and extreme programming practices

Quailty Assurance

May 2010 - Aug. 2010

Xtreme Labs Inc., Toronto, ON

- Ensured that features and bug fixes delivered by developers were up to standard
- Performed regression tests
- Managed a weekly build schedule with over ten builds a week
- Maintained several websites built in Ruby on Rails
- Developed iOS applications during slow periods

Programmer Analyst

Sept. 2009 - Dec. 2009

Cogeco Inc., Burlington, ON

- Developed a web-based application in ASP.Net and VB.Net to generate reports on demand to abstract complex modifications to several Oracle databases
- Undertook daily database maintenance duties
- Maintained and updated internal applications for both the IT and business side using Cogeco's software development life cycle methodologies
- Compiled reports and created diagrams for projects within the IT department

Projects**Android Scaffolding**

- Created a scaffolding system to automatically generate all of the necessary files for activities, fragments, and more
- Built in Python with an easy to update template system
- Designed to simplify the process of adding a new view or model to an Android project
- Source code: <http://github.com/brridder/Android-Scaffolding>

5-Stage MIPS CPU

- -2pt
- Class group project for ECE 429: Computer Architecture
- Implemented, in Verilog, a 5-Stage MIPS CPU core
- Stages included memory fetching, instruction decoding, storing into memory, and register writing back
- Tested each stage independently as well as integrated together.
- Source code: <https://github.com/brridder/ECE429-MIPS-Processor>

Interests & Hobbies**Music**

- Plays a variety of instruments including bass guitar, guitar, and flute with a focus on bass guitar
- Previous bass guitarist of indie rock band Long Range Hustle, playing original music and covers
- Enjoys playing music with other musicians
- Recorded material with the band in tracked studio and live-off-the-floor environments
- Played in various jazz ensembles in high school and in university

Skateboarding & Longboarding

- Passionate about the sport in all forms
- Rides all types of terrain including skate parks, bowls, pools, street, and downhill
- Have completed many trips spanning three to four hours over a distance of 20 to 40 kilometers a trip