Brian Chau

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Profile

- Cumulative Undergraduate GPA: 91.0%/3.89 (93.3%/4.00 over CS courses)
- Placed 19th in the Pacific NW Regional ACM International Collegiate Programming Contest 2013
- GitHub: github.com/briguychau
- Electronic portfolio: www.brianchau.ca

Technical Skills

Languages	Web	Software
C/C++	JavaScript	Android Studio
Java	PHP	Git
Python	HTML+CSS	UNIX/Linux
Objective-C	Django	

Work Experience

Software Development Engineer Intern, Amazon Lab 126   Sep 2014 to present
- Introduced various improvements to the Mayday feature in the Fire Phone and Fire Tablets.

Software Development Engineer Intern, Microsoft Corporation   May 2014 to Aug 2014
- Created an API for the next release of DirectX, dealing with shaders and shader reflection, completing all the phases of my project from design to implementation to testing.

Software Development Engineer Co-op, A Thinking Ape   Jan 2014 to Apr 2014
- Improved the use of Facebook as an advertising channel for our app, e.g. incentivizing users for sharing their results on Facebook and automatically giving rewards for Facebook referrals.
- Implemented various front-end and back-end services for a re-branding of our Android application, including in-app purchase notifications, to improve monetization and retention.

Undergraduate Teaching Assistant, UBC Computer Science   Jan 2013 to Dec 2013
- CPSC 210: Software Construction: teaches object oriented programming in Java and introduction to software engineering through UML diagrams and version control systems, and is capped off with an Android project. (Jul to Aug 2013 and Sep to Dec 2013)
- CPSC 101: Connecting with Computer Science: an introduction to computing through HTML, JavaScript, and Scratch. (Jan to Apr 2013)

Projects

Java 8 Functional Library (Java 8, personal)   Sep 2014 to present
- Converts bitmap files to/from the S3/DXT3 texture format for use with Microsoft Flight Simulator, employing self-written algorithms, file I/O, and OpenMP multithreading.

C++ Smart Object Header (C++, personal)   Aug 2014 to present
- Designed my own C++ smart object library, including smart object and smart pointer classes which employ automatic reference counting to keep track of objects.

FoodHero (PHP, JavaScript, HTML, CSS, SQL, academic)   Fall 2013
- Created a restaurant-based social networking web app in a group. Implemented the ability to add/remove reviews and likes to a restaurant page, mapping functionality with the Google Maps API, registration system, and basic user interface.

Education

University of British Columbia   Sep 2011 to May 2016 *expected*
- Bachelor of Science, Major in Computer Science and Software Engineering
  - Achieved an average of over 90% and ranked within the top 5% of all students in 2011-12, 2012-13, and 2013-14 school years

Prince of Wales Mini School   Sep 2006 to Jun 2011
- This is a secondary school program focused on academic enrichment and community building
  - Scored within top 5% in national mathematics competitions consistently, and qualified for the 2011 Canadian Mathematics Olympiad Qualification Repêchage