Tommy MacWilliam

Education

Harvard School of Engineering and Applied Sciences   September 2012 – May 2013

S.M., Computer Science. 4.0 GPA.

Harvard College   September 2009 – May 2013

A.B., Computer Science, *cum laude*. Secondary field in Government. 3.9 GPA.

Technical Experience

Languages and Technologies: C, CSS, HTML, Java (and Android SDK), Javascript (and jQuery), Objective-C (and iOS SDK), PHP, Python, Ruby, and SQL.

Quora   July 2013 – Present

Engineering Manager. Engineering manager for Quora's Platform team, which develops the core abstractions, tools, and libraries used by our engineering team to build our web and mobile applications.

Software Engineer. Engineer for Quora's mobile team with a focus on product development for Quora's universal iOS app. Implemented A/B tests, optimized performance, and launched new features. (http://qr.ae/tRwym)

Harvard University, Division of Continuing Education   September 2010 – May 2013

Instructor. Instructor for Harvard Extension School's Computer Science E-1: Understanding Computers and the Internet; youngest instructor in the school's history. Also a Head Teaching Fellow for Harvard College's CS50: Introduction to Computer Science I and CS164: Mobile Software Engineering, as well as Harvard Extension School's CSCI E-76: Building Mobile Applications. Recipient of three Harvard University Certificates of Distinction in Teaching.

CS50   May 2012 – May 2013

Developer. Developed software applications to facilitate student discussion, problem set submission, and collaborative coding for CS50x, the first course at Harvard College to be offered online through edX (with 150,000 students enrolled).

Box   May 2011 – August 2011

Software Engineer. Revamped the Box mobile website to take advantage of HTML5 and jQuery Mobile. Developed the web-based new user experience for Box's tablet apps. 2011 Box Hackathon winner. (http://bit.ly/nUYmR9, http://tcrn.ch/omBn7T)

Charles River Analytics   May 2010 – August 2010

Assistant Software Engineer. Developed a cross-platform mobile web application using HTML5, Javascript, and Ruby on Rails for a government and commercial supplier of intelligent systems.

Selected Publications

CrowdCL: Web-Based Volunteer Computing on the GPU   September 2013

T. MacWilliam, C. Cecka. IEEE High Performance Extreme Computing Conference.

Streamlining Grading Toward Better Feedback   July 2013

T. MacWilliam, D. Malan. ACM Conference on Innovation and Technology in Computer Science Education.

Scaling Office Hours: Managing Live Q&A in Large Courses   November 2012

T. MacWilliam, D. Malan. Eastern Region Conference of the Consortium for Computing Sciences in Colleges.

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