Phil Ngo

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Fast learner, rapid iterator, adept inventor with a knack for finding clever, robust solutions to tricky problems

Education

Harvard College – Cambridge, MA *B.A. Chemistry (3.66); Secondary field: Computer Science (4.00)*
Numbers: Cum. GPA: 3.607; ACT: 35; SAT: 2260 *Expected 05/2014*
Coursework:

- Intro to CS I & II
- Honors Linear Algebra
- App. Math: Optimization
- 3rd year Chinese
- Data Science
- Intro to Probability
- Physics Mechanics/EM
- Expository Writing

Experience

3D Plus Me – Salt Lake City, UT *05/2013 – Present*
Software Engineer; Technical Consultant

- Invented a patent-pending facial registration system enabling a core deliverable: programmatically stitching an arbitrary 3D face scan to an arbitrary 3D model.
- Wrote well-tested software realizing this objective and yielding reliable output.

Harvard School of Engineering and Applied Sciences – Cambridge, MA *09/2013 – 12/2013*
Course Assistant, CS50: Intro to CS I

- Taught fundamental programming concepts, including control structures, basic data structures, modular programming, common algorithms. Course in C, PHP.

Wolfram Research – Champaign, IL *06/2013 – 08/2013*
Software Engineering Intern, Apps Content Department

- Featured in the Wolfram Blog for writing *Mathematica AddOn* packages connecting Bluetooth LE, ANT+ wireless, and Sphero™ devices; link to blog post: goo.gl/Wf0H82

Idealab – Pasadena, CA *12/2012 – 04/2013*
Software Engineering Intern, Prototyping Department

- Quickly (read: inexpensively) developed a full working prototype of a soon-to-be-released mobile app, reducing market risk by allowing early market validation.

California Institute of Technology, Division of Biology – Pasadena, CA *07/2012 – 08/2012*
Researcher, Lab of Richard A. Andersen

- Implemented a flexible machine learning algorithm to control a robotic arm using streaming neural data from a primate subject, with multiple successful live trials.

Harvard Department of Chemistry and Chemical Biology – Cambridge, MA *09/2011 – 04/2012*
Harvard College Research Program Fellow, Lab of George M. Whitesides

- Developed manufacturing techniques for novel biomaterial used in cell growth assays.
- Published in *Biomaterials*, Nov. 18, 2013; link to paper: goo.gl/2cgmw1

Leadership

Harvard Latter-day Saint Student Association – Cambridge, MA *05/2012 – Present*
Vice President; Treasurer

- Organized events and fundraisers; decreased spending while increasing attendance.

The Church of Jesus Christ of Latter-day Saints – Singapore *07/2009 – 07/2011*
Zone Leader; District Leader; Volunteer Missionary

- Trained and oversaw 35 missionaries; coordinated public relations; learned Mandarin Chinese.

Skills

***Programming Languages*:** Python, C/C++/Objective C, Mathematica, Matlab, Ruby, JavaScript, Haskell.
***Tools and Frameworks*:** Xcode, Ruby on Rails, git, subversion, JIRA, OnTime, Asana, CVS.
***Languages/Other*:** conversational Mandarin, wilderness rescue, sport climbing, unicycling, oil painting.