

Peter Fogg

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Education

- **Indiana University** Bloomington, IN
Ph.D in Computer Science September 2014 -- May 2015 (*incomplete*)
- **Oberlin College** Oberlin, OH
B.A in Computer Science September 2010 -- May 2014

Work Experience

- **edX** Cambridge, MA
Software Engineer May 2015 -- *present*
 - Implemented the backend and UI allowing learners to self-organize into teams, creating a "small group" education experience in the context of a MOOC. Helped to scale up edX's Ecommerce platform, including switching parts of the infrastructure from synchronous blocking network calls to an asynchronous task queue.
- **Indiana University** Bloomington, IN
Research Assistant September 2014 -- May 2015
 - Co-author of [Adaptive Lock-Free Maps: Purely-Functional to Scalable](#), ICFP '15
 - Co-author of [Parallel Type-Checking with Haskell using Saturating LVars and Stream Generators](#), PPOPP '16
 - Implemented novel data structures for the [LVish](#) library
- **edX** Cambridge, MA
Engineering Intern June 2013 -- August 2013
 - Worked closely with the edX Studio team to implement various improvements to the usability of the platform
- **Oberlin College** Oberlin, OH
Grader February 2013 -- May 2014
 - Graded weekly lab assignments for CS151, Data Structures and Algorithms, and later CS280, Introduction to Algorithms
 - Examined code to determine where and why it failed and to assign partial credit
- **Oberlin College** Oberlin, OH
Workshop Leader September 2012 -- December 2012, September 2013 -- December 2013
 - Planned and lead a workshop intended to supplement Introduction to Algorithms
 - Worked to strengthen student's understanding of algorithmic techniques and their mathematical background
- **Apatapa** San Francisco, CA
Lead iOS/Django developer June 2012 -- August 2012
 - Helped to design and develop an iOS application, its backend, and associated website
 - Brought several key features from start to completion
- **Oberlin College** Oberlin, OH
Tutor October 2011 -- May 2014
 - Tutored students in introductory computer science classes, explaining concepts such as recursion, object-oriented programming, and debugging
 - Assisted students in upper-level classes with learning new languages, etc.

- **Oberlin College**

Lab Helper

Oberlin, OH

September 2011 -- May 2012

- Helped students in lab with programming assignments---pointing out simple problems, giving design advice, assisting with more complicated debugging

- **University of Rochester**

Summer Intern

Rochester, NY

June 2011 -- August 2011

- Benchmarked Blue Gene/P and Beowulf cluster supercomputers, using Amber and GAUSSIAN programs

Skills

- **Programming Languages:** Python, Haskell, Javascript, Clojure, Java, Scheme
- **Frameworks:** Django, Backbone, Unity
- **Operating Systems:** Unix, Mac OS X
- **Other:** git, MySQL, L^AT_EX, test-driven development

Other

- [Github](#)
- peter-fogg.com