

# Peter Fogg

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585-451-1004

## 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
  - 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** Oberlin, OH  
*Lab Helper* 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<sup>A</sup>T<sub>E</sub>X, test-driven development

## Other

- [Github](#)
- [peter-fogg.com](http://peter-fogg.com)