# 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**                                    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**                          Rochester, NY
  *Summer Intern*                          *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, LaTeX, test-driven development

## Other

- Github

- peter-fogg.com