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Edward Z. Yang

- SELECTED WORK EXPERIENCE**
- ◇ **Microsoft Research**, Cambridge, UK *Summer 2014, Research Intern*
Worked on the implementation of Backpack, a new module system for Haskell. This work has gone on to become the topic of my PhD thesis.
 - ◇ **Streambase**, Lexington, MA *Summer 2012, Engineering Intern*
 - ◇ **Jane Street**, New York, NY *Summer 2011, Software Development Intern*
Worked on an internal asynchronous communication library and Paxos protocol.
 - ◇ **Microsoft Research**, Cambridge, UK *Spring 2011, via Cambridge University*
Worked on the GHC Haskell compiler's code generator and implemented dataflow analyses of C-- with Simon Marlow and Simon Peyton-Jones.
 - ◇ **Galois**, Portland, OR *Summer 2010, Software Engineer Intern*
Worked on symbolic interpretation/formal verification as part of Cryptol, including Haskell bindings for ABC, A System for Sequential Synthesis and Verification.
 - ◇ **Ksplice**, Cambridge, MA *Winter 2010, Software Engineer Intern*
- SELECTED PAPERS**
- ◇ **Efficient communication and Collection with Compact Normal Forms.** Joint work with Giovanni Campagna, Ömer Ağacan, Ahmed El-Hassany, Abhishek Kulkarni, Ryan Newton. *ICFP 2015*.
 - ◇ **Protecting Users by Confining JavaScript with COWL.** Joint work with Deian Stefan, Petr Marchenko, Alejandro Russo, Dave Herman, Brad Karp, and David Mazières. *OSDI 2014*.
 - ◇ **Dynamic Space Limits for Haskell.** With David Mazières. *PLDI 2014*.
- EDUCATION**
- ◇ **Stanford University** *4th year PhD student*
 - Lectured CS242, *Concepts in Programming Languages*. Fall 2013, Fall 2014 (co-taught with Deian Stefan), Fall 2015 (sole instructor).
 - Program chair for *Haskell Implementors Workshop*, 2016.
 - ◇ **Massachusetts Institute of Technology** *Class of 2012*
Bachelor of Science in Computer Science. GPA 5.0/5.0.
 - Chairman, Student Information Processing Board, 2009–2010
 - Team Leader of scripts.mit.edu, a student-run shared web hosting service.
 - ◇ **University of Cambridge** *Cambridge-MIT Exchange 2010–2011*
Computer Science Tripos / History and Philosophy of Science
- PORTFOLIO**
- ◇ **Blog**, 2010–now <http://blog.ezyang.com>
 - ◇ **GHC**, 2011–now
Active contributor to the Glasgow Haskell Compiler.
 - ◇ **Logitext**, 2012 <http://logitext.mit.edu/main>
An interactive educational system for teaching first-order logic.
 - ◇ **HTML Purifier**, 2006–now <http://htmlpurifier.org>
A comprehensive, widely used HTML filter library.
 - ◇ **Open source**
I've worked on patches for various open-source projects, including Ur/Web, Coq, Sup, Git, BarnOwl, OpenAFS, Xournal, html5lib, PHP and MediaWiki.
- SKILLS**
- ◇ **Programming Languages:** Proficient in C, Haskell, OCaml, Python, Java, shell scripting, Javascript, PHP. Familiar with Ruby, Coq, SQL, Scheme, Perl.