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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 Maziéres. *OSDI 2014.*

◇ **Dynamic Space Limits for Haskell.** With David Maziéres. *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, Fall 2016 (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** (committer), 2011–now

◇ **Cabal/cabal-install** (committer), 2014–now

◇ **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 am an open source citizen, and contribute patches when I can. Projects include Sup, Git, OpenAFS, Ur/Web, Coq, BarnOwl, Xournal, PHP and MediaWiki.

SKILLS

◇ **Programming Languages**: Proficient in C, Haskell, Python, shell scripting, Javascript, PHP. Familiar with OCaml, Java, Ruby, Coq, SQL, Scheme, Perl.