

290 Massachusetts Ave  
Cambridge, MA 02139  
ezyang@mit.edu

## Edward Z. Yang

- WORK EXPERIENCE
- ◇ **Jane Street**, New York, NY *Summer 2011, Software Development Intern*  
Worked on an internal asynchronous communication library and Paxos protocol.  
Invented a novel algorithm for diskless crash recovery.
  - ◇ **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*  
Worked on a satellite server and internal infrastructure in Amazon EC2.
  - ◇ **ITA Software**, Cambridge, MA *Summer 2009, Performance Engineer Intern*  
Developed and ran performance experiments for Polaris.
  - ◇ **OmniTI**, Brooklyn, NY *Summer 2008, Software Engineer Intern*  
Wrote a web input fuzzer, an automated penetration tester and a web crawler.
- EDUCATION
- ◇ **University of Cambridge** *Cambridge-MIT Exchange 2010–2011*  
Computer Science Tripos / History and Philosophy of Science
  - ◇ **Massachusetts Institute of Technology** *Graduating Class 2012*  
Candidate for Bachelor of Science in Computer Science. GPA 5.0/5.0.
    - Selected final projects: *Operating Systems Engineering*, implemented an operating system with live process migration; *Large-scale Symbolic Systems*, implemented a partial evaluator for a subset of Scheme.
    - Chairman, Student Information Processing Board, 2009–2010
    - Team Leader of scripts.mit.edu, a student-run shared web hosting service.
- PORTFOLIO
- ◇ **Blog**, 2010–now <http://blog.ezyang.com>
  - ◇ **BarnOwl Facebook plugin**, 2011 <https://github.com/ezyang/barnowl>  
Alternative interface for Facebook emphasizing streaming ala Twitter.
  - ◇ **Count-Min Sketch**, 2011 <https://github.com/ezyang/ocaml-cminsketch>  
Probabilistic data structure supporting sublinear operations written in OCaml.
  - ◇ **Nondeterministic Turing Machine search**, 2009–2010 <http://goo.gl/AI5wV>  
Efficiently nondeterministically searches for programs that satisfy certain properties.
  - ◇ **Wizard**, 2009–now <http://scripts.mit.edu/wizard>  
A Git-based implementation of user-customizable autoinstalls and upgrades.
  - ◇ **HTML Purifier**, 2006–now <http://htmlpurifier.org>  
A comprehensive, widely used HTML filter library weighing 50k lines of OOP code.
  - ◇ **Open source**  
I've worked on patches for various open-source projects, including GHC, Hoopl, Cabal, c2hs, Sup, Git, BarnOwl, OpenAFS, Xournal, html5lib, SimpleTest, Drupal, PHP and MediaWiki.
- SKILLS
- ◇ **Programming Languages**: Proficient in C, Haskell, OCaml, Python, Java, shell scripting, Javascript, PHP. Familiar with x86 assembly, SQL, Scheme, Perl, XSLT.