

# Edward Z. Yang

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- WORK EXPERIENCE
- ◇ **Ksplice**, Cambridge, MA  
Winter 2010, Software Engineer (Intern)  
Ksplice creates rebootless updates for the Linux kernel. Extended infrastructure for deploying updates.
  - ◇ **ITA Software**, Cambridge, MA  
Summer 2009, ResOps Performance Engineer (Intern)  
Improved infrastructure and ran performance tests for Polaris.
  - ◇ **OmniTI**, Brooklyn, NY  
Summer 2008, Software Engineer (Intern)  
Refactored and improved security tools including a web input fuzzer, a penetration tester for XSS and CSRF, and a web crawler.
- EDUCATION
- ◇ **Massachusetts Institute of Technology**  
Graduating class 2012. Candidate for Bachelor of Science in Electrical Engineering and Computer Science. GPA 5.0/5.0.
    - Chairman, Student Information Processing Board, 2009–now
    - Team Leader of the scripts.mit.edu project, MIT’s student-run dynamic web-hosting service with eight servers and hosting three-thousand accounts
- PORTFOLIO
- ◇ **HTML Purifier**, 2006–now  
Lead developer of an HTML filter library. The library is 50k lines of object-oriented code. It is shipped by default in numerous open source web applications. Project website is <http://htmlpurifier.org>
  - ◇ **Gravity Simulator**, 2008  
A toy project written in Java that does 3D simulations of the many-body problem. Some notable features include matrix transforms for rendering velocity vectors and rudimentary collision detection.
  - ◇ **html5lib**, 2008–now  
Maintainer of html5lib, a suite of libraries providing reference implementations of the HTML5 specification.
  - ◇ **Wizard**, 2009–now  
A next generation management system for web applications, with a focus on making the installation and upgrade of thousands of application instances tractable. It makes advanced use of Git, a distributed source control management system.
  - ◇ **Nondeterministic Turing machine search**, 2009–2010  
A nondeterministic search program for Turing machines that satisfy certain properties written in Haskell. Discussed in “Adventures in Three Monads”, an article in The Monad Reader; see <http://web.mit.edu/~ezyang/Public/threemonads.pdf>
  - ◇ **Open source**  
I’ve written patches for various open-source projects, including Sup, pyafs, SimpleTest, Drupal, Sprox, PHP and MediaWiki.
- SKILLS
- ◇ **Programming Languages**: Proficient in Python, Haskell, C, Java, PHP. Familiar with x86 assembly, MySQL, Lisp/Scheme/Clojure, Perl, XSLT, JavaScript.