

# Edward Z. Yang

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## WORK EXPERIENCE ♦ **Contract work**

Various clients have commissioned new features for HTML Purifier, an open source project I develop (see *Portfolio* for more details).

### ♦ **OmniTI**, Brooklyn, NY

Summer 2008, Software Engineer (Intern)

Refactored and improved security tools including a proxy browser action recorder, a web input fuzzer, a penetration tester for XSS and CSRF, and a web crawler.

### ♦ **ITA Software**, Cambridge, MA

Summer 2009, ResOps Performance Engineer (Intern)

Improved infrastructure and ran performance tests for Polaris, a reservation system for being built for Air Canada.

## EDUCATION

### ♦ **Massachusetts Institute of Technology**

Graduating class 2012. Candidate for Bachelor of Science in Electrical Engineering and Computer Science.

- Chairman, Student Information Processing Board, 2009–now

- 6.828, *Operating Systems Engineering* Fall 2009. Implemented a minimal operating system, including an exokernel and userspace.

### ♦ **John P. Stevens High School**, Edison, NJ

2004–2008, Graduated valedictorian with a 4.0 GPA

## PORTFOLIO

### ♦ **HTML Purifier**, 2006–now

Lead developer of an HTML filter library. The library is 50k lines of object-oriented code that addresses issues from both the W3C specification and real-world usage of HTML among users. It is shipped by default in numerous open source web applications and has been extensively profiled and optimized. Project website is <http://htmlpurifier.org>

### ♦ **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 extensive and advanced use of Git, a distributed source control management system.

### ♦ **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.

## SKILLS

♦ **Programming Languages:** Proficient in Python, Haskell, C, Java, PHP. Familiar with x86 assembly, MySQL, Lisp/Scheme/Clojure, Perl, XSLT, JavaScript.