

# 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.

## EDUCATION

## ♦ **Massachusetts Institute of Technology**

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

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

2004–2008, Graduated valedictorian with a 4.0 GPA

## PORTFOLIO

## ♦ **HTML Purifier**, 2006–now

Founder and 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>

## ♦ **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.

## ♦ **Student Information Processing Board**, 2008–now

Member of the resident student computing group at MIT. Projects include sipbmp3, where I improved the user-friendliness and documentation of an audio streaming system built over LPRNG, and clockworks, an application for helping people schedule events (both feature outwards facing UIs written in Python). Gave an introductory talk on Web Application Security under SIPB's auspices.

## ♦ **SimpleTest**, 2008–now

Contributing developer, submitted various bugfixes and helped spearhead the conversion to E\_STRICT compliance. I use unit tests on all of my projects.

## SKILLS

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