

Zachary Hickman

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Availability: January - June 2015

Work Experience

TA, Northeastern University 2013 – Current

TA for Fundamentals of Computer Science I. Involved concepts such as [generative/tail-end] recursion, structures and unions, abstraction, and other basics taught using Racket (functional programming). Previously a Tutor for “Fundies” 1 and 2.

(Course Website: <http://www.ccs.neu.edu/course/cs2500f14/>)

Software Engineering Intern, SmarterTravel Summer 2014

Created new features for all SmarterTravel Media “core” websites, including SmarterTravel.com, BookingBuddy.com, and AirfareWatchdog.com. Most notably, replaced the existing MySQL-based configuration back-end with a YAML-based configuration back-end. Used a primarily PHP-based MVC framework, as well as a Javascript MVC framework and jQuery. Environment was setup on a Mac OS X machine.

Software Engineering Intern, Symantec Corporation Summer 2013

Developed new functionality for Norton Single Sign On, a CAS-based program running on Apache Tomcat. Created Splunk dashboards for further statistical analysis on key products. Extensively used Java, Ruby, and other languages while collaborating on products used by millions globally. Software, tools and protocols involved include Maven, RESTful APIs, SAML 2.0. Programmed on CentOS and Fedora machines.

Runner-Up in the 2013 Symantec Intern Showcase Competition in Mountain View, CA.

Computer Knowledge

Languages:	Java – Racket(/Scheme) – PHP – Javascript – HTML/CSS – SQL – C++ – Python – LaTeX
Frameworks/CMSs:	Wordpress – Drupal – CakePHP – Zend Framework – X-Cart – osCommerce
Operating Systems:	Windows (XP, Vista, 7, 8) – GNU/Linux (Debian, Fedora, CentOS, Ubuntu) - Mac OS X
Tools/Software:	vim – Eclipse – Visual Studio – Dev-C++ – Source Control (git, svn) – Splunk – Apache

Education

Northeastern University 2012 – Present

Studying for Dual Major in Computer Science and Game Design.

Honors: 3.57 CS GPA on a 4.0 scale, Dean’s List Spring 2014

Related Courses: Algorithms & Data, Theory of Computation, Programming Languages (Masters)

Activities: A Cappella, “HackBeanpot,” Intramural Soccer, TAing

Merrimack High School, Merrimack, NH 2009 – 2012

Honors: 3.65 GPA on a 4.0 scale, graduated in top 15% of class

Activities: Choir (All-State, All-Eastern music festivals), Robotics, Band (Clarinet), Varsity Soccer

Projects

UntitledMixtap.es (<http://www.untitledmixtap.es>)

A Spotify mixtape/playlist generator. Uses EchoNest and last.fm APIs. Written in Python, uses Flask and Bootstrap.

Identicon Generator (<http://zhickman.com/gravatar.php>)

Web wrapper for Gravatar's web API. Generates Identicons based on user input and IP address.

ZHickman.com (<http://zhickman.com>)

Portfolio website. Contains resume, active projects, and links to relevant profiles.

Interests

Longboarding, A Cappella, Hacking, Soccer

References will be furnished upon request.