Zachary T. Zimmerman

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http://oneman2feet.github.io

EDUCATION

Cornell University College of Engineering　　　　　August 2013 - May 2017 (expected)
B.S. in Computer Science – GPA: 4.0 / 4.3
Engineering Dean's List Fall 2013, Spring 2014

Stuyvesant High School　　　　　September 2009 - June 2013
Class of 2013 – GPA: 4.0

WORK EXPERIENCE

Course Consultant (CS 3110) – Cornell University　　　　　August 2014 - present
- Assisted students in grasping concepts in functional programming
- Held weekly office hours, helped craft assignments, as well as participated in grading sessions

Software Development – Bloomberg L.P.　　　　　June 2014 - August 2014
- Developed two full-scale data visualization widgets for use in the Bloomberg Terminal
- Used HTML5 Canvas, Javascript, and RequireJS for the fastest possible visuals
- Implemented polygon hit-testing, event-driven interactions, and data-model-world transforms

Web Development – V.I.A. Vintage Intelligence Agency　　　　　June 2012 - present
- Developed a pair of highly customized and artistic websites for the fashion company
- Optimized pre-loading of resources, implemented infinite scrolling, and utilized jQuery for animations
- See http://suzannemccoyfitschen.com/ for the full experience

PROJECTS (github.com/ Oneman2feet)

Sleepy Bob: Cornell Google Game Jam　　　　　September 14, 2013
- Lead the 1st place team in this 24-hour hackathon, coded a sidescrolling sleep-themed game
- Implemented parallax effects in Javascript and utilized Box2D.js for ragdoll simulation
- Play a demo version at http://oneman2feet.github.io/sleepybob

Poem Generator: Presented at Google, NY　　　　　May 2013 - June 2013
- Developed a social poem-sharing site with built in poem generator using Python and Flask
- Devised algorithms for generating sonnets, haikus, or poems in the style of famous poets
- Implemented markov chains, rhyming, and counting syllables using nltk

StuyDash　　　　　November 2012
- Designed a school dashboard site incorporating bell schedule, weather, and current events
- Screen-scraped information in Python using regex, displayed with a Javascript widget
- Information also made accessible through texting and a phone hotline using the Twilio API

RELEVANT CLASSES

Computer Graphics, Digital Logic and Computer Organization	Fall 2014
Data Structures and Functional Programming, Discrete Mathematics	Spring 2014
Object Oriented Programming in Java, Visual Imaging in the Electronic Age	Fall 2013

SKILLS

Programming Languages:	Javascript, Python, Java, OCaml, Scheme
Web Development:	Flask, HTML5, CSS3, Canvas, SVG, RequireJS, jQuery
Software:	Git, SVN, LaTeX, MongoDB, Emacs, Inkscape

ACTIVITIES

Chai Notes A Cappella　　　　　January 2014 - present
Member of executive board holding the position of PR Graphics (2014-2015)

Zero Robotics　　　　　December 2010 - October 2012
Finalist in national robotics competition on the international space station
Coded three-dimensional formation flight, spacecraft docking, and autonomous collaboration in C

INTERESTS

Speedcubing and Rubik's Cube puzzles, Bodyboarding and Surfing, Singing