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

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, Data Visualization, Design