Zachary T. Zimmerman

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Education

Programming Langs

SKILLS

Javascript • Python • Java Dart • OCaml • Scheme

Web Development

HTML5 • CSS3 • SASS • SVG Canvas • Angular • NodeJS Gulp • RequireJS • jQuery Flask • MongoDB

Software Tools

Vim • Emacs • Git • SVN Perforce • Inkscape • LATEX

GITHUB

github.com/ oneman2feet

Pokemon Showdown Bot Personal Website • PokeStats Dotfiles • Resumé Template Computer Generated Art

INTERESTS

Design

Typography • UI & Interaction Design • Lettering • Brand & Logo Design • Graphic Design

Music

A Cappella • Barbershop Arranging • Overtone Singing

Tech

Data Visualization • OpenGL Computer Graphics • Game Design • Web Development Algorithms • Functional Programming

Fun

Bodyboarding • Video Games Board Games • Rubik's Cubes

Cornell University College of Engineering

B.S. in Computer Science, Minors in Music and Game Design

August 2013 - May 2017 GPA 4.0 / 4.3

Stuyvesant High School

Advanced Regents Diploma, Class of 2013

September 2009 - June 2013 GPA 4 0

Google Inc. Software Engineer

Work Experience

May 2015 - August 2015

- Implemented a new feature for a data visualization dashboard in the AdWords front-end
- Interfaced with charting library and interpreted server responses to route relevant information

Bloomberg L.P. Software Developer

June 2014 - December 2014

- · Developed three cutting-edge data visualization widgets for use in the Bloomberg Terminal
- Used HTML5 Canvas, Javascript, and RequireJS for the fastest possible visuals
- Implemented hit-testing, event-driven interactions, and data-model-world transforms

V.I.A. Vintage Intelligence Agency Web Developer

June 2012 - September 2014

- · Developed highly customized and artistic websites for the fashion company (viavtg.com)
- Optimized pre-loading of resources, implemented infinite scrolling, and animated with jQuery

Projects

Impulse: Action Platformer Game gdiac.cis.cornell.edu/gallery January 2015 - May 2015

- · Rapidly prototyped initial game and level editor in Javascript with SVG and Box2dWeb
- Designed and implemented lazy camera with support for tracking an arbitrary number of targets
- Worked heavily on game graphics, including custom shaders and particle simulator effects

A Sharp: Music Visualizer github.com/oneman2feet/a-sharp October 2014 - December 2014

- · Designed a music visualizer to accurately represent music, rather than just accompany it
- Performed sound analysis with librosa to detect mel frequency spectrum and track beats
- Extracted the foreground to determine the pitch of the melody and estimate the overall mood
- Visualized the music using pyglet for displacement mapping and physically-based animation

Sleepy Bob: Google Game Jam oneman2feet.github.io/sleepybob

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

Coursework

Advanced Game Design, Embedded Systems, Human-Computer Interaction Intro Game Design, Analysis of Algorithms, Computer Graphics, Digital Logic Functional Programming, Discrete Mathematics, Object-Oriented Programming 2015-2016 2014-2015 2013-2014

Activities

The Cornell Glee Club gleeclub.com

January 2015 - present

- Proud member of the world-renowned choral ensemble
- Sang at Carnegie Hall in April 2015 and will tour Mesoamerica in January 2016

Chai Notes A Cappella thechainotes.com

January 2014 - present

- Assistant Musical Director (2015-2016): Arranged songs and occasionally lead rehearsal
- Graphic Designer (2014-2015): Designed all posters, flyers, programs, tickets, and chalk art