Local Address: 2581 Virginia Street Berkeley, CA 94709

## Education

# University of California, Berkeley

August 2011 - Current

Fourth year Electrical Engineering and Computer Science Major GPA of 3.32

B.S. expected Spring 2015

## Relevant Course Work

Introduction to the Internet

- Computer Security
- Introduction to Artificial Intelligence

Data Structures

- Software Engineering
- · Efficient Algorithms and Intractable Problems

- Foundations of Computer Graphics Programming Languages and Compilers

# **Experience**

## Software Intern, Arista Networks

May 2014 - August 2014

· Worked primarily on SDN team, specifically to separate the model and view of a subset of 'show' commands, making JSON representations of the data requestable through an Arista switch's web client and allowing the data to be easily parsable for internal testing

#### Web Developer, P.I.C. Your Future, http://py-bcnm.berkeley.edu

August 2013 - Current

· Currently working full stack to refactor and transition the 'selfie' editing page to Angular, while also continuing to refine and add features in order to create a fun and easy to use editing experience that hopes to encourage underprivileged high school students to view college as an accessible, available, and viable option

#### Activities

External VP, Out in Science, Technology, Engineering, and Mathematics (oSTEM) August 2012 - Current

- Currently working to increase external professional relationships for the organisation by reaching out to companies, coordinating infosessions and sponsorships between them and oSTEM, allowing the members to network with LGBTQ professionals
- Attended regular meetings, participated in the Berkeley Project with oSTEM, helped coordinate oSTEM's booth at Engineering 4 Kids Day, attended LGBTQ professional networking conferences at Facebook HQ and Google's New York office

## Lab Assistant, CS61C, UC Berkeley

January 2013 - December 2013

· Streamlined lab section by assisting in lab check-offs and answering students' questions to help create a more enjoyable, smoother lab experience for everyone

## Work

#### Teaching Assistant, Folsom Piano Academy, Folsom, CA

2010 - 2011, Summer 2012

 Utilised over 11 years of experience in piano performance to assist in teaching the children's group classes in beginner to intermediate piano music, providing each student with more attention and time

## Skills

# Web

· HTML/CSS, JavaScript with JQuery and some Angular, d3, and Kinetic experience

#### **Programming Languages**

• Python, Ruby/Rails/Sinatra, Java, C, C++, MIPS (Assembly), Unix Command Line

# **Natural Languages**

· English, Mandarin Chinese

#### **Programming Experiences**

- · Implemented a basic ray tracer from scratch, interpreted Bezier patches to render various objects (including the standard Utah teapot), and wrote a basic fluid simulation using smoothed particle hydrodynamics
- Parallelism with Intel's SSE intrinsics and OpenMP to increase the speed of matrix multiplication approximately tenfold on average
- MapReduce using Apache Hadoop framework on Amazon's EC2 servers to analyse large amounts of text data for the co-occurrence rate of target phrases in the data