Andy Gu

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EDUCATION

University of Southern California, Los Angeles, CA

May 2018

Bachelor of Science in Computer Science and Computer Engineering

GPA: 4.00

Courses: Linear Algebra and Linear Differential Equations, Data Structures and Object Oriented Programming, Discrete Methods in Computer Science,

Introduction to Embedded Systems, Principles of Physics

Complete by December 2015: Foundations of Digital System Design, Introduction to Algorithms and the Theory of Computing, Principles of Software Development

Graduate - Top 10 Ranked Student

May 2014

Saint Francis High School, Mountain View, California

G.P.A: 3.99 Un-weighted 4.61 Weighted

National AP Scholar - AP Calculus AB, AP Calculus BC, AP Statistics

SKILLS AND EXPERIENCE

Programming Languages: C, C++, Python Hardware Design: Arduino Uno

Passing Experience: HTML, CSS, Javascript

Microsoft Office: Advanced

Los Alamos National Lab, Advanced Computing Solutions, Los Alamos, NM, Research Intern

May 2015-August 2015

- Writing safer anonymization algorithms across multiple network data types and implementing a query interface based on graduated trust relationships with users
- Manipulated pcap format data with the Scapy library; will implement scripts for IP address pseudonimyzation
- September 2014-Present
- Worked as a research intern under Mrs. Gina Fisk and the RetroFuture project while keeping a log of weekly progress

Analysis of Network Traffic Lab, Information Sciences Institute, Marina Del Rey, CA, Research Intern

- Wrote Python scripts to automatically generate charts using the Matplotlib library given data from edge network probing
- Wrote interactive Javascript websites mapping outage geolocations over multiple 24-hour time periods and parsing probe results

January 2015-Present

- Read Perl code and wrote equivalent Python scripts to parse probe results of /24 blocks of the Internet
- · Helped researchers perform Internet measurement and analysis to better facilitate outage detection
- · Worked as a research intern under Dr. John Heidemann while keeping a log of weekly progress

University of Southern California, Introduction to Computing Course, Course Grader

• Selected as a course grader based on academic and course performance in first semester courses. Will grade midterms, homework, and project essays while checking for plagiarism during the semester.

PROJECTS

Death Clock

- Created a Halloween-themed Android application at the 2014 TrojanHacks Hackathon it took in behavioral data and displayed average life expectancy based on lifestyle choices chosen from a drop-down menu. Won 4th place out of 18 teams.
- · Learned basic Android programming principles to personally create a screen that returned and processed the results of these data.

My(o) Cookbook

- · Wrote a dynamic recipe using the Myo API to detect stirring and chopping gestures to progress through a digital cookbook for users.
- Independently learned the Javascript interface / myo.js library to track basic cooking gestures. Won best Myo hack at LA Hacks 2015.

HONORS/ACCOMPLISHMENTS

- Trojan Scholar Society and National Society of Collegiate Scholars, Member 2014
- Alpha Lambda Delta Honor Society, Member 2014
- IBM Watson Memorial Scholarship Recipient, Presidential Scholarship Recipient 2014
- Deans List Spring 2015
- W.V.T. Rusch Engineering Honors Program Member 2014