

EDUCATION**University of Southern California**, Los Angeles, CA | **GPA: 4.0****May 2017**

Viterbi School of Engineering

Bachelor of Science, Computer Science

Dean's Scholarship – Awarded with Full USC Tuition (50K+/Year)**University of California Irvine**, Irvine, CA | **GPA: 4.0****September 2012**

Henry Samueli School of Engineering

TECHNICAL SKILLS**Programming Languages & Software:**

C++ (Proficient), Python, Git

USC Certification Classes:

Ethical Hacking, Mobile App Development

WORK EXPERIENCE**Police Cadet – *Second in Lead Command*****Santa Monica College Police Department****January 2013 – August 2014**

- Operated fully equipped Government Police Vehicles and Police Tactical Gear
- Trained 8 new-hires; entrusted with acclimating new Police Cadets with policies, standards, and ethics
- Fingerprinted new college faculty hires and conducted background searches
- Created and maintained record database of citations and violations
- Collaborated with FBI, S.W.A.T., and Bomb Squad

PROJECTS**Research** - Improving Email Reliability & Performance**Next Assignment:** BGP Network

- Created an automated pipeline for all USC emails to be analyzed, collaborated in a research group setting
- Developed a program to detect delay by intermediate servers, and automated analysis report for emails

Ship Together

- Developed iPhone App prototype in which users join a collective Amazon shopping cart
- Each user in the collective cart contributes towards the \$35 minimum for free shipping

Online Retail System

- Created different products using inheritance and polymorphism
- Developed a Splay Tree to provide fast search functionality of products
- Developed Red Black tree to be used as a map, and implemented in-order traversal iterator
- Implemented Dijkstra's Algorithm to find similarities between users to offer product suggestions
- Implemented a Hashing algorithm to encrypt and store hashed passwords
- Implemented GUI using Qt in C++

Social Network

- Developed functionality to find Shortest Path of friend connections, Disjoint Sets of Friends, and Friend Suggestions based on Depth of Nodes

Image Processing

- Overlay green screen image on any background; through each RGB pixel layer
- Program adaptable to any color 'green screen' background, with any added tints/shades/imperfections

Audio Processing

- Automatically download user selected files from internet database
- Detected operating system, executed system commands to manipulate audio files to user specifications

RECENT ACTIVITIES**Leadership:** Co-Founder of a Petition to bring Men's Soccer to USC – over 1,000 signatures (Supported by Annenberg)**USC Clubs:** ACM, IEEE, Brazilian Jiu Jitsu, Street Dance Society**Volunteer work:** Basketball coach for local elementary school**Outlook on life:** When I'm not in school, I like to travel in search of incredible surf, scuba diving, rock climbing, and hiking. My favorite locations in California are Yosemite National Park and Malibu Beach.