

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 & Housing until Graduation (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
- 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

Favorite California Locations: Hollywood Sign Hiking Trail, Surfing at Malibu Beach, Yosemite National Park