# Iman Zakeri

Linkedin.com/in/ImanZakeri • (310) 880 - 2702 • Zakeri@usc.edu

## EDUCATION

**University of Southern California**, Los Angeles, CA                                          **May 2017**
Bachelor of Science, Computer Science
Cumulative GPA: **3.98/4.00**

**Dean's Scholarship** – Awarded with Full USC Tuition & Housing (60K+/Year)
**Research Funding** – Awarded by University of Washington to improve the BGP network
**Masters in CS** – Accepted to accelerated 1-Year Masters Program based on GPA - Class of 2018

## TECHNICAL SKILLS

**Programming Languages & Software:**          **Proficient:** C++     **Familiar:** Python, Bash, Git, Nagios, Quagga
**USC Certification Classes:**                          Ethical Hacking, Mobile App Development

## WORK EXPERIENCE

**Research Internship – Software Engineering (USC/University of Washington)**          **Summer 2015**
<u>BGP Network</u>
- Created system to monitor BGP connections & BGP Autonomous Systems through Nagios, Quagga, SNMP
- Configured BGP Muxes to run developed monitoring bash scripts, and announcement experiments on BGP
- Manually compiled Nagios and Quagga to customize installation for peering test bed

<u>Improving Email Reliability & Performance</u>
- Developed automated system to analyze every email sent through USC email servers to determine cause of delays
- Program measured delay by individual intermediate servers that an email travels through prior to final destination
- Program produces analysis report & CDF graph based on seconds elapsed due to downtime by intermediate servers

**Undergraduate TA – Data Structures C++ Course** *(Volunteer)*          **Summer 2015**
- Held exam review sessions, office hours, assisted students with labs, projects, and creating data structures ground-up
- Collaborated in a team environment with TA's to assist a class of 30 students

**Police Cadet –** *Lead Command Cadet*          **January 2013 – August 2014**
**Santa Monica College Police Department**
- Operated equipped Police Vehicles and tactical gear; conducted hundreds of background searches & fingerprinting
- Trained 8 new-hires; entrusted with acclimating new Police Cadets with training, policies, standards, and ethics
- Created and maintained record database of thousands of citations and violations – RIMS database

## PROJECTS

**Ship Together**
- Developed iPhone App prototype interface 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 and users 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++

**Image Processing**
- Overlay green screen image on any background; through each RGB pixel layer v
- 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

**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
**Hobbies:** Traveling in search of incredible surf, snorkeling, rock climbing, and acroyoga