Engineering undergrad with 2+ years of experience in systems and hardware design with strong focus on security seeking an opportunity to solve complex and interesting problems in the field of hardware/firmware security.

## EDUCATION

**University of California, Los Angeles**

**Henry Samueli School of Engineering** GPA: 3.02

*Bachelor of Science, Electrical Engineering* Expected Graduation: March 2019

## SKILLS

**Languages:** Java, C++, C, PERL (limited) **Web Apps:** NodeJS, Angular, React, Bootstrap

**Scripting:** Python, PowerShell, Bash, JavaScript **Environments:** Active Directory (MAC and Windows)

**Principles:** DHCP, IPv6, 6to4 tunneling, DNSSEC, └**Services:** ADFS, ADCS, WDS, S4B, SSL VPN

Virtual networking, VPN (all types) SharePoint, Exchange, Cisco CME

**Tools:** Wireshark, Logstash, Fiddler, NXLog, Regular Expressions

## EXPERIENCE

### Security Analyst (SAII – SAIII) Santa Monica, CA

*The DigiTrust Group* October 2017 – Present

* Identified and classified key threats to client's network environments through log collection and aggregation to allow the support of new hardware devices contributing to increased client retention
  + Created PowerShell scripts to compile and standardize different log formats
  + Performed extensive DFIR research on network traffic patterns and user behavior
* Crafted information visuals in Elastic's Kibana to improve DFIR research and Health Check reports
* Wrote JavaScript functions to automate event handling for Security Analysts, reducing click volume and increasing productivity and turnaround time on event processing

### Help Desk Technician Century City, CA

*The Broad Foundation/Family Office Financial Services* October 2016 – September 2017

* Created custom PowerShell GUI tool for automatic user provisioning and migration to improve efficiency
* Deployed ADFS to facilitate MFA for end users, while ensuring in office security by restricting access to publicly accessible terminals such as conference rooms and phone booths
* Created custom SharePoint search page and URI handler to provide a more refined search for our SharePoint sites that allowed for improvements to refinement and specificity

### Systems Administration Intern Los Angeles, CA

*American Computers and Engineers* June 2014 – September 2014; June 2015 – September 2015

* Developed Active Directory Environment for Windows based systems.
  + Hardened environment against standard attack vectors: Pass the hash, SMB exploits, DNS poisoning, privilege escalation via poor user access and segregation
* Deployed remote access and administration through DirectAccess and RADIUS server

## PROJECTS

### IOCSCAN.IO

*IP address threat analysis*

* Custom created web application that analyzes IP addresses to determine likelihood of malicious activity
* Designed custom heuristic algorithms to determine threat score and construct easy to interpret description

### Machine Learning Optimization

*Teaching a machine how to optimize*

* Designed and implemented a neural network to construct a generalized optimization function to optimize a family of functions superior to standard monolithic algorithms
* Used in the design and model of antennas to maximize energy density and reduce interference