

# Christopher Makarem

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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.

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## EDUCATION

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### University of California, Los Angeles

Henry Samueli School of Engineering

Bachelor of Science, Electrical Engineering

GPA: 3.02

Expected Graduation: March 2019

## SKILLS

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**Languages:** Java, C++, C, PERL (limited)

**Scripting:** Python, PowerShell, Bash, JavaScript

**Principles:** DHCP, IPv6, 6to4 tunneling, DNSSEC,  
Virtual networking, VPN (all types)

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

**Web Apps:** NodeJS, Angular, React, Bootstrap

**Environments:** Active Directory (MAC and Windows)

**Services:** ADFS, ADCS, WDS, S4B, SSL VPN  
SharePoint, Exchange, Cisco CME

## EXPERIENCE

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### Security Analyst (SAII – SAIII)

The DigiTrust Group

Santa Monica, CA

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

The Broad Foundation/Family Office Financial Services

Century City, CA

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

American Computers and Engineers

Los Angeles, CA

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

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### 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

### Embedded System Steganography

Image Processing Cryptography

- Designed and implemented steganographic injection process on image data for C6748 embedded hardware
- Supported discrete cosine transform steganography for JPEG image compression to reduce noise and prevent visual attack.