

Aaron Cowley

Security Engineer



396 N 100 W Apt 8 Provo Utah



aaron.d.cowley@outlook.com



(916) 430-6668



github.com/aaroncowley
linkedin.com/in/aaron-cowley-3a091b126

Education

M.S. Technology (Cybersecurity
Emphasis) | Brigham Young
University, Provo Utah | Aug 2021
GPA:4.0

B.S. Cybersecurity | Brigham Young
University, Provo Utah | Aug 2019
GPA:3.32

Skills

Languages : Python, C/C++, Golang,
Javascript, C#, SQL, Java

Defensive Cybersecurity : Splunk,
Splunk Phantom, Elastic Stack, Zeek
IDS, Snort

Penetration Testing : Nessus, Burp
Suite, Kali Linux, Metasploit

Forensics : Volatility, Autopsy, FTK
Imager, Malware Reverse Engineering

Systems Administration : Amazon
AWS, Azure, Git, Docker, Ansible

Extra-Curricular

Bug Bounty Hunter on Hackerone &
BugCrowd

BYU CCDC (Collegiate Cyber
Defense Competition) Linux & Web
Team Lead

BYU ITSEC Club Vice President

Deloitte CTF 2nd Place

HackTheBox Rank of Hacker

Work Experience

Dec'19 - Now

Graduate Cybersecurity Research Assistant

BYU, Provo UT

- Thesis on deploying vulnerable blockchains as "vulnerability as a service" Cybersecurity teaching tools
- Researching automated red team scripts for defensive cybersecurity training
- Created and Manages Academic Research Lab's SOC using Splunk, Zeek IDS, Splunk Phantom and custom Python integrations
- Teaches and prepares coursework for defensive and offensive Cybersecurity classes

May'19 - Now

ICS Security Engineer Intern

Idaho National Laboratory, Idaho Falls ID

- Assessed security of US DOE Industrial Control Systems and developed automated remediations in Python
- Deployed SIEM tools and wrote custom Python integrations for ICS devices
- Programmed automated threat feed SOAR integration for SCADA system defense
- Developed novel threat model and remediation for critical ICS Vulnerability that was presented on Capitol Hill to demonstrate INLs cyber response capabilities
- Used Python to automate threat remediation and reporting software

Sep'18 - Sep'19

Cybersecurity Research Assistant

BYU, Provo UT

- Web Applications & Linux lead for CCDC (Collegiate Cyber Defense Competition) team
- BYU Student Red Team Member
- TA and Mentor for Cybersecurity courses
- Developed Penetration Testing coursework for Cybersecurity major as an undergrad

Jan'17 - Sep'18

Student Full-Stack Developer

BYU, Provo UT

- Managed 14 of BYU Humanities multi-platform websites
- Reduced code complexity and decreased load time by 10% through self-written upgrades
- Discovered and patched SQLi and XSS vulnerabilities in live University websites

Publications

Jan 2020

Dynamic Intrusion Deception in a Cloud Environment

Chia-Chi Teng, Aaron Cowley, Russel Havens

Projects & Contributions

June 2019

Open source contribution to Structured Threat Intelligence Graph, a gui for creating and visualizing STIXv2 threat intelligence objects with a graph database

github.com/idaholab/STIG