

Aaron D. Cowley

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Education

B.S. in Cybersecurity, Brigham Young University

Dec 2019

GPA: 3.25

Skills

Offensive Cybersecurity: Nessus, OpenVAS, Metasploit, Offensive Python, Kali Linux

Defensive Cybersecurity: SIEM experience, Log Analysis, Host-Based Firewalling, STIG Compliance, Bro IDS

Reverse Engineering: GNU Debugger (GDB), IDA Pro, WinDBG

Systems Platforms: Linux, Windows, Microsoft Azure, Macintosh, Docker, Vmware ESXi

System Administration: Linux & Windows Hardening, Powershell, System Automation, Service Uptime Assurance

Programming languages: Python 3, C, C++, Golang, SQL, Clojure, PHP, Javascript, Java

Other Technologies: Elastic Stack, Bash/UNIX Shell, Vim, Emacs, Git, Github, Android Studio

Experience

Research Assistant and Red Team Member

Sept 2018 - Present

BYU Cybersecurity Research Lab (CSRL), Provo UT

- Selected as team member for BYU's nationally recognized CCDC Team
- Researches novel ideas in the field of Cybersecurity
- Manages academic resources for BYU Cybersecurity coursework through VMware ESXi
- Builds system hardening automation tools in Python
- Web, Networking, and Linux Subject Matter Expert for CCDC Team
- BYU Red Team Junior Member

Web Developer - Student Employee and Intern

Jan 2017 - Sept 2018

Brigham Young University Office of Digital Humanities, Provo UT

- Managed 14 of BYU Humanities' Wordpress multi-platform websites
- Developed and secured front and back-end of web applications
- Reduced code complexity and decreased load time by 10% through self written upgrades
- Exponentially increased data accessibility in the BYU Humanities College Wordpress theme by implementing an improved sorting algorithm with real-time filtering
- Discovered and patched XSS vulnerabilities in web services integral to the research of thousands of humanities professionals

Clubs & Honors

Information Technology Security Club (ITSEC) Vice President, BYU

2014 - present

Computer Science Hacking & RE Club (YHACK) Member, BYU

2014 - present

ACM Member, BYU

2014 - present

Eagle Scout, Boy Scouts of America

Received 2011

Personal Projects

Networking: Secured home network to Government STIG standard, ESXi virtualized IDS and Firewall

Programming: Developed automated Raspberry Pi worm. Created portspooft automation program for CCDC

competitions in order to slow down Red Team vulnerability scanning. Implemented offensive security tool suite in Python.