github.com/JayHayward jay@jayhayward.com

(970) 215-7103 Loveland, CO 80538

## **Cybersecurity Engineer**

Languages - C, C++, Python, Bash, Git, Linux/Unix CLI, Powershell

Tools - Nmap, Wireshark, Metasploit, Windows Active Directory, Hashcat, John, Splunk, Ghidra

### **Professional Experience**

Staples - SOC Engineer Intern (June 29, 2020 - August 21, 2020)

- Conducting Purple Team exercises to test the functionality of our threat detection systems, including DNS tunneling, SMB remote command execution, and Man-in-the-Middle, among others.
- Utilizing Windows Active Directory architecture and Powershell scripting to identify and exploit vulnerabilities in various systems including Windows servers and clients in our enterprise network.
- Conducting penetration testing leveraging the MITRE ATT&CK Framework, focusing on Discovery, Lateral Movement, and Defense Evasion.

### **Education**

University of Colorado Boulder Bachelor of Arts, Computer Science

#### **Academic Achievements**

- Society of Telecom Fellowship (2020)
- National Technical Honor Society (2014)

#### **Extracurricular Activities**

- CU Cyber Club: Executive Board (January 2017 – May 2020)
- Collegiate Cyber Defense Team (September 2017 – March 2020)
- Science Bowl (2011-2014)

Graduation Date: May 7, 2020 Major Specific GPA: 3.860

## Major Specific Courses

- Advanced Penetration Testing
- Digital Forensics
- · Linux System Administration
- · Cybersecurity for a Converged World
- Algorithms
- Operating Systems
- Data Science
- Software Development

# **Events and Competitions**

- Collegiate Cyber Defense Competition Won 3rd place, Rocky Mountain Regional competition
- HackCU IV Developed an algorithm that tracks and recognizes varying heart rate patterns
- HackCU V- Developed a program that introduces CS students to capture-the-flag challenges
- Facebook Hackathon 2018 Won 2nd place for a system that reroutes traffic through a network

# **Relevant Skills and Experience**

- Collegiate Cyber Defense Competition CU Blue Team Strategic Defense Coordinator
   The Blue Team is responsible for keeping numerous web services running against a team of professional penetration testers. I would run constant monitoring and keep a detailed record of any breaches to our system. I was responsible for effectively communicating my reports to a non-technical administration.
- CU Cybersecuity Club Social Media and Marketing Executive
   I was responsible for maintaining a social presence for CU's Cybersecurity Club, which involves giving presentations and generating interest for cybersecurity among students. In the club environment I would help less technically oriented students develop useful skills in a friendly and accommodating setting.
- Advanced Penetration Testing Developing an in-depth understanding of vulnerabilities and exploits
  In weekly assignments I would be presented with one or more machines in a private network, where used tools
  and scripting to identify and exploit various vulnerabilities to gain user and root access. I analyzed malicious
  scripts and used reverse-engineering to determine their purpose and function, as well as how to detect them
  in various forms and systems.