Jay Hayward

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Cybersecurity Engineer

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

Tools - Nmap, Wireshark, Metasploit, Mimikatz, Responder, Hashcat, John, Splunk

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:
  - Exfiltration - DNS Tunneling
  - SMB Remote Command Execution
  - Man in the Middle - LLMNR / NBT-NS Poisoning
- 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

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

Academic Achievements

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

Major Specific Courses

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

Extracurricular Activities

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

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 at involvement fairs 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.
- **Cybersecurity for a Converged World -** Developing a technical foundation
  Learned about basic policy and logistics of cybersecurity in the modern age. Expanded into technical skills, including analyzing and performing exploits, and developing countermeasures to vulnerabilities in various systems including web services and personal devices.