Connor Gephart

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Skills

`Python` `R` `Java` `PowerShell` `Assembly` `C/C++` `Go` `Git` `GitLab` `Docker` `Ansible` `Terraform` `Network Analysis` `Reverse Engineering` `Penetration Testing` `Statistical Analysis` `Excel` `Technical Writing`

Professional Experience

Johns Hopkins University Applied Physics Laboratory - Cybersecurity Engineer

2022 - Present

- Spearhead the design, development, and implementation of security protocols for a variety of projects, including developing cyber defense strategies, establishing secure access controls, and performing vulnerability assessments
- Develop and improve CI/CD pipelines using Gitlab to facilitate automatic deployment of critical virtual Navy ecosystem
- Conduct penetration test on hardened Linux operating system to determine suitability for contract sponsor use
- Coordinated with stakeholders to develop effective security plans that addressed the needs of the organization while protecting confidential information

BlueBonnet Data - Data Fellow and Project Lead

2023 - Present

- Worked with external client to ingest and process precinct-level election data to inform targeting and voter outreach services
- Utilized Python to analyze election data and produce maps and charts to determine the districts best suited for client intervention and voter education

Department of Defense - Cyber Summer Program Intern

2021

- Performed firewall vulnerability analysis and network traffic analysis focused on creating and maintaining secure IPSec VPN tunnels
- Designed and implemented test network of firewalls, workstations, and penetration testing virtual machines using VMWare vCloud

United States Government - Cyber Operations Intern

2019 - 2021

- Support the design and testing of office Internet networks. Coordinate and engage with inter-office components to create documentation related to project implementations
- Perform cyber analysis, technical research, and investigations on digital signatures with regards to Internet usage, targeting, and data analysis

Towson University - Cyber Operations Researcher

2020

- Researched, developed, and implemented red team capabilities for use in monthly red team exercises against students taking COSC 481 - Case Studies in Computer Security
- Developed an Ansible playbook to edit the /etc/hosts file of all known Linux hosts to direct them to a malicious copy of the classroom infrastructure page to steal student team credentials
- Developed a tool to listen for specific entries in the log files of Linux machines to then trigger malware to create a connection

Towson University - Data Science Researcher

2020

- Developed Python and R programs that evaluated call center data to determine the efficiency and effectiveness of the Maryland Transit Administration's disability bus service
- Performed statistical analysis of large datasets using advanced machine learning methods such as random forest, linear regression, and clustering algorithms

Department of Defense - Computer Science Intern Program

2018

- Created "Next-Word Index" of English Wikipedia data and measured storage impact
- Utilized Apache Accumulo and Hadoop Distributed File Systems technologies

UPS, Inc. - DevOps Developer

2017 - 2018

- Member of UPS DevOps Transition team and worked collaboratively with other departments to ensure the efficient delivery of software and services to clients
- Utilized a variety of tools, such as Ansible, Jenkins, Docker, Git, and Maven to manage and automate the development process

Leadership Roles/Awards/Accomplishments

- BSides Charm Presentation 2018
- CyberCorps Scholarship for Service 2018 - 2020
- President of Towson Cyber Defense Competition Team 2017 - 2020
- President of Towson University Ballroom Dance Club 2016 - 2019

Education

Johns Hopkins University - M.S. in Security Informatics

Towson University - B.S. in Computer Science and Mathematics