

Sam Vonderahe

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PROFESSIONAL EXPERIENCE

Crowe LLP, Cybersecurity Consultant Staff- Denver, CO Jan 2022 – Present

- Successfully ran and lead Social Engineering Campaigns, External Penetration Assessments, Cybersecurity Assessments, and Internal Penetration Assessments for clients in the Technology, Media, and Telecommunications industry both remotely and on-site.
- Traveled domestically and internationally to perform Internal Penetration Assessments, either independently or with team members.
- Participated in Purple Team assessments in which I worked closely with the client's internal blue teams to discuss progress, tactics, findings, and paths to remediation on a daily basis.
- Participated in Cloud Security, Mobile Application, and API Security Assessments for clients in the Technology, Media, and Telecommunications industry.
- Developed a Data Exfiltration methodology that defined levels of Data Exfiltration testing and built internal tools using Python for testing client's Firewall, Intrusion Detection, and Packet Analysis systems.
- Updated and built several internal tools as part of our Development Team using Go, C, Python, Bash, and Powershell.

Crowe LLP, Cybersecurity Consultant Internship- Chicago, IL Summer 2021

- Participated in a Cybersecurity Assessment for a client in the financial sector; Focused on endpoint controls.
- Participated in Internal Penetration Assessments for clients in the Technology, Media, and Telecommunications industry
- Updated a public tool (Shareenum) to support SMBv2 and SMBv3.
- Built several tools using Python and Powershell for the cybersecurity team.

Software Engineering Internship with Cummins canceled due to Covid-19 Summer 2020

EDUCATION

Purdue University, College of Science- West Lafayette, IN

Graduation Date: December 2021

- Bachelor of Science Degree
 - Major: Computer Science
 - Concentration: Security
 - Minor: Management
 - GPA: 3.53

PROJECTS

Notable Projects at Crowe: Jan 2022 - Present

- Used the Nessus API to create a custom python program to export Vulnerability Scan reports.
- Built Python programs used to test client's Firewall, Intrusion Detection, and Packet Analysis systems during Data Exfiltration testing.
- Used my knowledge of SQL to improve the company's password analysis methodology.
- Built custom programs in Bash to help a client automate security testing.
- Utilized amass, crt.sh, and subfinder to create a custom application to aid in the external domain identification process.
- Updated internal tools written in C and Go for feature updates and bug fixes.

Pantry Pal: July 2020

- Django (Python framework) and mySQL website developed for the Techpoint S.O.S Challenge
- Allows participating food banks to track their inventory and post what supplies they need
- Built login form, distance calculation/sorting, and managed the mySQL database

PF-Chain: May 2020

- Web scraping tool developed for personal use; built using bash and python
- Displays a graph representing an artist's ratings on the website Pitchfork

TOOLS

- Regularly use Nessus, Burp Suite, Netsparker, Metasploit and several custom applications in Windows and Kali for Security Assessments.
- Proficient in Python, Bash, Git, Java, C Programming, SQL, and Linux systems.
- Additional experience using Node.js, HTML, CSS, C++, as well as x86-64 and ARM assembly.

RELEVANT COURSEWORK

Object Oriented Programming, C Programming, Data Structures and Algorithms, Foundations of CS (Discrete Math), Computer Architecture (Bash & Assembly), Software Engineering (See Midas under Projects), Systems Programming (C & C++), Operating Systems, Computer Security, Computer Networks, Cryptography, Intro to Database Systems