

# Jake Derkowski

INFORMATION SECURITY · SECURITY OPERATIONS CENTER

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## Experience

### 5Q Partners

SECURITY OPERATIONS CENTER ANALYST

Remote, Texas

Jan. 2021 - Present

- Upheld triage requirements defined by service-level agreements
- Developed scripts and applications to automate tasks and workflows
- Prioritized Microsoft Sentinel (SIEM) incidents by severity and potential impact
- Identified nuances in user and network activity and escalated to the client
- Investigated potential phishing incidents, via Microsoft 365 security and wrote Exchange policies for remediation
- Provided quick and reliable response to verified threats by restricting entities, revoking user sessions, and more
- Created customers' Microsoft Azure workspaces, implementing best security practices and configured data connections

### Website, Inc.

SYSTEM ADMINISTRATOR

Houston, Texas

May 2020 - Nov. 2020

- Migrated and upgraded client's resources to new servers, ensuring functionality in the new environment
- Managed a Linux (CentOS) server environment that primarily used Apache2, MySQL databases, and PHP, over 100 client sites
- Quickly responded to customer's concerns and tickets by explaining or troubleshooting over the phone or SSH into their server

## Skills

**Languages** Agile Methodologies, Bash, C++, PowerShell, Python, Kusto (KQL), SQL

**Systems** Azure, Various Linux distributions and servers, Windows 10/11, Windows Server 2016-2019

**Tools** Azure Logic Apps, Git, Metasploit, Nessus, Nmap, Power BI, Snort (IDS/IPS), VMware, Wireshark

**Network** Active Directory, Cloud Computing & Migration, DNS, Firewalls, Group Policy, Virtualization,

**Security** Malware Information Sharing Platform (MISP), Microsoft Sentinel (SIEMs), Microsoft Security & Compliance, Defender for Cloud

## Education

### Sam Houston State University

MASTER OF SCIENCE, INFORMATION ASSURANCE & SECURITY

Huntsville, Texas

August 2020 - May 2023

- Center of Academic Excellence in Cyber Defense Education

(Online)

### Sam Houston State University

BACHELOR OF SCIENCE, COMPUTER SCIENCE

Huntsville, Texas

June 2018 - May 2020

- Concentrated studies in Information Assurance and Digital Forensics, ABET Accredited
- Philosophy Minor

**GPA: 3.33**

## Certificates & Awards

June 2022 **SC-200**, Certified Microsoft Security Operations Analyst

Mar. 2020 **Regional Qualifiers**, Collegiate Cyber Defense Competition

2021-2022

2019-21 **Dean's list**, Sam Houston State University

Huntsville, TX

## Projects

### Cyber Warfare

SAM HOUSTON STATE UNIVERSITY

Class Project

Jan. 2020 - May 2020

- Constructed a secure, fully functional virtual network using CentOS and Windows Server 2016 systems
- Successfully penetrated opponent's network using social engineering, scanning, enumeration, and exploit db

### Zoom Project

SAM HOUSTON STATE UNIVERSITY

Research Project

Jan. 2020 - May 2020

- Identified vulnerabilities within the Zoom Video Conferencing application through extensive research
- Captured user credentials via packet poisoning and filtering; cracked with hash-cat
- Successfully discovered the cause of the vulnerability, then provided possible remediation