Jake Derkowski

832-702-9498 | jakederkowski12@gmail.com | www.jderkowski.com | JakeDerkowski96 | jake-derkowski2020

Education

Sam Houston State University   *Huntsville, Texas*
MASTER OF SCIENCE, INFORMATION ASSURANCE & SECURITY   *August 2020 - May 2022*

- Center of Academic Excellence in Cyber Defense Education   *(Online)*

Sam Houston State University   *Huntsville, Texas*
BACHELOR OF SCIENCE, COMPUTER SCIENCE   *June 2018 - May 2020*

- Information Assurance and Digital Forensic
- Philosophy Minor   **GPA: 3.33**
- ABET Accredited

Honors & Awards

2020	**Best Project**, Information Security Class Competition, Sam Houston State University	*Huntsville, Texas*
2020	**Regional Qualifiers**, Collegiate Cyber Defense Competition	*Remote, U.S.A*
2020	**Dean's List**, Sam Houston State University	*Huntsville, Texas*
2019	**Dean's List**, Sam Houston State University	*Huntsville, Texas*

Skills

Languages	Ada, Agile Methodologies, Bash, C++, Java, Python, SQL
Systems	CentOS, Kali, Ubuntu, VyOS, Windows 7/10, Windows Server 2012R2/2016
Tools	Ettercap, exploit-db, M365/O365, hashcat, Git, Metasploit, Nmap, Snort, VMware ESXi, WireShark
Network	Active Directory, Azure, Cloud Migration, DHCP, DNS, Firewalls, Group Policy, TCP/IP, NAT, Ports & Protocols, Virtualization, VPN
Security	Splunk queries, statistics and reports, Intrusion Detection & Prevention, Incident Response, Threat Hunting
Other	Trouble shooting, Customer Service, Good Judgment, Technical Support, NIST & ISO Compliance

Work Experience

Website, Inc.   *Houston, Texas*
SYSTEM ADMINISTRATOR   *May 2020 - Nov. 2020*

- Successfully migrated client's websites to an updated server and software versions by establishing effective communication immediately
- 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

99 Tutors   *Huntsville, TX*
CALCULUS TUTOR   *January 2018 - January 2020*

- Conveyed course content to students in an effective way to maximize students' results
- Developed trusting and comfortable relationships resulting in referrals to other students

Matador Mowing   *Lubbock, TX*
CHIEF EXECUTIVE OFFICER   *March 2017 - October 2017*

- Developed and maintained trusted relationships with customers, which led to a 15% decrease in customer attrition
- Hired, trained, and scheduled employees allowing company expansion
- Marketed and advertised services which attracted customers to our "student-ran" company

Texas Plumbing   *Kerrville, TX*
APPRENTICE PLUMBER   *January 2016 - September 2016*

- Identified the cause of difficult problems so that simple solutions can be implemented
- Effectively communicated the cause of their plumbing issues leading to an increase of sales and customer satisfaction

Gibson's Discount Center   *Kerrville, TX*

Department Manager   *March 2014 - January 2016*

- Discussed the customer's issues and worked together to formulate a plan-of-action including what supplies they would need which created personal relationships resulting in loyal customers
- Collaborated with team members to coordinate duties and responsibilities resulting in mandatory tasks to be completed faster allowing for more employees to have more time to spend with the customer

Technical Experience

Romania Problem   *Artificial Intelligence*

Huntsville, Texas   *July 2016*

- Utilized Artificial intelligence search algorithms to find the shortest path between two cities such as Breadth-first, Depth-first, Iterative Deepening Depth-first
- Implemented program modularization by packaging similar functions into modules to be imported, increasing readability and allowing for future changes to be completed efficiently

Cyber Warfare   *Class Project*

Sam Houston State University   *January 2020 - May 2020*

- Constructed a secure, fully-functional virtual network using CentOS and Windows Server 2016 systems
- Attacked and successfully penetrated the opposing team's network using techniques such as information gathering, scanning and network discovery, enumeration, etc.

Zoom Project   *Research Project*

Sam Houston State University   *January 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

Base Blocks   *Software Engineering*

Sam Houston State University   *January 2020 - May 2020*

- Recreated a math learning game using Unity game-engine (C#) and used a FireBase Database that provided the tools to create an aesthetic interface while increasing its teaching power
- Stored player information and game data in real-time which prevented data loss allowed player to continue and compare their progress to their classmates creating a competitive environment; increasing student participation

Twitter Forensics   *Independant Research*

Sam Houston State University   *June 2019 - August 2019*

- A forensic tool for collecting and investigating all activity and information of Twitter users all packaged together into a user-friendly command-line tool.
- Investigation can be performed in an organized and reliable manner due to the various formats return information can be stored including JSON, pandas, database, and elastic-search. In the case of the database output, all information is stored into structured tables, specific to the type of search parameters used allowing for connections to be made through the use of querying keywords or user names