Jake Derkowski

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

Education

Sam Houston State University   *Huntsville, Texas*

MASTER OF SCIENCE, INFORMATION ASSURANCE & SECURITY   *August 2020 - May 2023*

- CAE-CDE Accredited   *(Online)*

Sam Houston State University   *Huntsville, Texas*

BACHELOR OF SCIENCE, DIGITAL FORENSICS & INFORMATION ASSURANCE   *June 2018 - May 2020*

- Concentration in Information Assurance and Digital Forensics
- Minor in Philosophy   **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, PowerShell, Python, SQL
Software	CentOS, Kali, Linux, Microsoft Office, Git, Metasploit, Nmap, Snort, VMware, Windows 10, WireShark
Network	Administration, Firewalls, Ports & Protocols, Virtualization, Virtual Private Networks
Security	Auditing & Reporting, Intrusion Detection & Prevention, Incident Response, System Monitoring, Research
Other	Trouble shooting, Customer Service, Good Judgment, Technical Support, NIST & ISO Compliance

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 hashcat
- Successfully discovered the cause of the vulnerability, then provided possible remediation

Collegiate Cyber Defense Competition   *Linux Specialist*

SAM HOUSTON STATE UNIVERSITY   *January 2020 - May 2020*

- Participated with a team, in life-like scenarios, where we worked together to protect and defend our network against active attacks from professional penetration testers, forcing us to communicate and work together to utilize the strengths of each individual
- Identified potential threats, acknowledged abnormal behaviors, and dispersed important communication throughout the team in order to mediate and prevent threats to the other machines

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 elasticsearch. In the case of the database output, all information is stored into pre-configured tables, specific to the type of search parameters used allowing for connections to be made through the use of querying keywords or usernames

Work Experience

Website, Inc.

Houston, Texas

SYSTEM ADMINISTRATOR

May 2020 - Current

- Managed Linux server environments and other technologies for over 100 clients
- Assisted in the migration of customer data to new server and updating their services improving scalability, security, and efficiency
- Assessed customer's MySQL database issues remotely

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

December 2015 - September 2016

- Identified the cause of difficult problems so that simple solutions can be implemented
- Communicated the present circumstances effectively to the customer so that they understood the issue and what must be done to fix it which led to in an increase of sales and customer satisfaction

Gibson's Discount Center

Kerrville, TX

DEPARTMENT MANAGER

March 2014 - January 2015

- 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