

# Jake Derkowski

SOFTWARE ENGINEER · SOFTWARE DEVELOPER

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## Summary

Information Assurance graduate student seeking an entry level position in software engineering, system administration, or cyber security where I can utilize my experience in python, bash, C++ programming languages. Seeking to collaborate with an inspiring and devoted team where we can grow together to build something that the world can benefit from, Available for relocation.

## Education

### Sam Houston State University

MASTER OF SCIENCE, INFORMATION ASSURANCE & SECURITY

- Center of Academic Excellence in Cyber Defense Education

Huntsville, Texas

August 2020 - May 2022

(Online)

### Sam Houston State University

BACHELOR OF SCIENCE, COMPUTER SCIENCE

- Information Assurance and Digital Forensic
- Philosophy Minor
- ABET Accredited

Huntsville, Texas

June 2018 - May 2020

GPA: 3.33

## 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++, 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

## Relevant 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

## 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

### 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

Independent 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