

Professional Skills Reflection

Mikael Sykes

Department of Cybersecurity, Old Dominion University

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Introduction

I am completing my Bachelor's degree in Cybersecurity in May 2026, with a professional goal of becoming an ethical hacker or penetration tester. The three marketable skills I have chosen to include in my e-portfolio are Linux System Administration, Teamwork and Operational Efficiency, and Python Programming. These are necessary skills since cybersecurity experts need to control secure systems, coordinate well in the face of stress, and write code to automate security processes.

Skill: 1 Linux System Administration.

Skill Description

Linux system administration is the skill to navigate, configure, and secure Linux-based operating systems through the command line. This is the inherent skill since the majority of enterprise servers and security instruments operate under Linux.

Evidence of the Skill.

I have chosen the Linux File Configuration Project as my major artifact since I worked with system and user configuration files, which I edited with the help of the command line and text editors. Personally, I managed file permissions and confirmed correct system operation by properly setting up files. My Amazon Waterspider Experience reinforces this ability through parallel discipline, keeping track of inventory quantities and preventing shortages, as well as system logs and disk space. Further, my Favorite NBA Team Info Program needed an organized logic and concern with syntax, which can be applied to writing a bash script to automate the system.

Professional Relevance

Linux administration is directly transferable to penetration testing. In performing security assessments, I will access target systems, execute enumeration scripts, and operate attacking machines such as Kali Linux. These projects offer the practical basis one needs to follow for command-line-based security jobs.

Skill 2: Teamwork and Operational Efficiency

Skill Description

Teamwork and operational efficiency are the skills of working with other people and ensuring smooth operations in high-paced settings. In cybersecurity, incident response teams and security operations centers need professionals capable of organizing their efforts and helping each other during a high-pressure situation.

Evidence of the Skill

The first artifact I have is the Amazon Waterspider Workflow Experience. I personally kept track of inventory, replenished supplies, and coordinated with teammates to avoid any production delays. This necessitated vigilant observation, effective communication, and anticipating the needs before they turned out to be an issue. My Hampton Roads Ransomware Presentation proves this competency by working with complex information- synthesizing data across various sources into a concise briefing to a fictional city council. Another method that indicates my capacity to present the technical information on the law to an academic audience is the Search Warrant Analysis presentation of the East Coast Crips investigation.

Professional Relevance

During a security breach, every second counts. The professionals should communicate with the leadership, show signs of compromise, assign tasks, and share with them. The experience with my waterspider also taught me a few lessons about remaining composed, keeping track, and preventing issues prior to their escalation, which will prove useful in a Security Operations Center or on an incident response team.

Skill 3: Python Programming

Skill Description

Python programming refers to the capability of coding, testing, and debugging to get a solution and automate tasks. The implementation of Python in cybersecurity involves writing penetration testing scripts, log file analysis, and custom security tools.

Evidence of the Skill.

The main artifact is the Favorite NBA Team Info Program, in which I created Python code to prompt the user to provide information, which the program will then manipulate with conditional logic, and provide specific information about a team. Personally, I tried the program with various inputs and debugged errors until I got a working program. My Basic Cyber Program & Network (Python) coursework allowed me to understand the relevance of programming to cybersecurity issues, including automating repetitive work, detecting vulnerabilities, and using code. The Linux File Configuration Project bolstered the same logical thinking and syntax consciousness that programming requires.

Professional Relevance

Ethical hackers use Python to write custom exploits and automate reconnaissance. Defenders to read logs and automate incident response use Python. My NBA team program indicates that I have mastered the basic knowledge of programming that is input, logic, output, testing and can build up with more complex security scripts.

Describing My Skills to an Employer or Supervisor

Linux system administration is one of the major skills that I have gained during my program. In my Linux File configuration Project, I used the command line to make alterations to the system files, permissions, and ensure the system setup functions correctly. Such a skill would prove useful in a career in cybersecurity, where they might have to configure servers or perform penetration tests with such tools as Kali Linux.

Teamwork and operating efficiency are other important skills I acquired. As an Amazon waterspider, I monitored inventory levels, restocked materials in real time, and coordinated with team members to prevent production delays. This would help in a Security Operations Center or working on an incident response team, where coordination during a time of pressure is paramount.

I now have good Python programming skills. I have composed a similar code in my Favorite NBA Team Info Program, where the user inputs are taken, conditional logic is applied, and specific information about the team is given. It would be useful in a career in cybersecurity where an individual is required to create a script to automate the process of analyzing logs or to create testing software used to breach.

Strongest Skill Reflection

The skill I believe is strongest is Linux System Administration. The skill is particularly special due to its being the most directly technical and applicable directly to my job aspirations of being an ethical hacker. This capability was the most developed during the Linux File

Configuration Project, since it involved me making changes in actual system files, dealing with permissions, and ensuring that my alterations were yielding accurate output. I am hoping that I can use this ability in my day-to-day work as a penetration tester because maneuvering Linux environments is the essence of the task.