Introduction

As the time for me to graduate gets closer and closer by each passing day, I have picked up many different skills and have learned many different things about myself and my degree. This e-portfolio is a collection of all I have learned as well as some of my best work to better demonstrate that. There are many skills that I have picked up at my time here at Old Dominion university, but I think the three skills that I have shown the best ability with as well as the skills I will continue to excel at are, writing skills, critical thinking skills, and technical skills. In addition to these skills, I have displayed 3 artifacts from various classes to better show my ability and reasons for why I chose these specific skills.

Writing

Artifact 1: Ethical Implication of Digital self-defense

The class that this paper came from was called "Cyber strategy and Policy" and this class allowed me to write some really great papers. It allowed me to focus on a specific topic in cybersecurity and then look at it from different scopes. The scope that I chose to put here was the ethical scope, but we also looked in the political and the social scope. I had to conduct research to find out information about my topic and how it applies in the ethical aspect. Basically, my topic was the idea of digital self-defense, or in simpler terms, "hacking back". That topic is not one sided and there are arguments on both sides about whether or not people should have that right to do it. "It poses and creates some problems related to ethics and contains in general three main types of ethical issues: personal privacy, access right, and harmful actions" (Gunarto 2003). This was the first time that I had to write a paper about a topic in one field but talk about a specific implication about that topic. I was very pleased about how the paper turned out overall and I would even say that it was one of my better pieces of work, especially since it was somewhat of new terrain. I would say that this class helped prepare me for my interdisciplinary research class because in that class I also have to talk about cybersecurity in a different scope.

Artifact 2: Cybersecurity Critical Infrastructure Effectiveness on Cyber attacks

This was a final paper that I wrote for my English technical writing class and this one required to create our own research paper as if we were an expert on the topic we chose. My topic was "Cybersecurity Critical Infrastructure Effectiveness on Cyber-attacks" and I had to utilize all the research steps in this paper as well as create my own scenario. This paper was very entertaining to do because I was able to make up my own research process and conclusion as if I was in the field actually trying to figure out a way to collect data. This paper also allowed me to strengthen my research skills as well as my writing skills.

Artifact 3: Rhetorical analysis on "The Healthcare Divide"

One paper that I had to do for my English composition class was a rhetorical analysis and this was my first time doing so. I had this class early on in my academic career which I am glad for because being exposed to how to write a rhetorical analysis earlier rather than later helped me out better in the long run. Basically, I talked about what went on in the film, but I had to analyze

the different meanings for why the narrator or filmmakers did what they did. It was a very interest paper since this was not something I practiced a lot on but after doing this paper it allowed me to think about the portrayal of different concepts whether it is film or in writing.

Technical Skills

Artifact 1: Password Cracking

This assignment was from my cyber operations class and this class introduced me to a lot of the physical parts of cybersecurity. This class was very enjoyable due to the fact that not only did I learn about different concepts in cybersecurity, but I also got to do hands on activities like this one. I would say that this class was one of the few classes that gave me this experience which I am grateful for because it allows me to practice what I learn. This class actually made me what to take another class named "Ethical hacking and penetration testing" to keep exploring the physical components of cybersecurity, as well as the different methods of what to do in various scenarios. This assignment was our fifth lab and what we had to do was utilize a password cracking tool named John the ripper to try to crack the passwords that we create on different users. The passwords we created with the uses had different strengths to it and that was for the purpose of us to see how stronger passwords would be hard to crack to do their complexity whereas the weaker and simpler passwords were easier to get into.

Artifact 2: Using Wireshark on a website

This assignment was not anything too complex, but I do enjoy it because when doing it, it made me think about how something small to other people can be more complex to some in technology. Wireshark is used to capture and display real-time details of a network traffic. You can use it to analyze network protocols and make sure that networks are secure as well as troubleshoot if something is wrong. Wireshark is going to be used often in cybersecurity, so it is important to familiarize yourself with it sooner so that way you are more comfortable with using it later in more important scenarios. The way that we were supposed to use it in this assignment was by searching up a common link or website domain and viewing the traffic for it. Just by doing that allows you to get more exposure with the tool and the same would apply to other tools.

Artifact 3: Linux/Ubuntu

The main objective of this assignment was to practice creating basic groups as well as account management. This assignment was very useful with introducing me to Ubuntu as well as Linux (for this assignment I chose to do it on Ubuntu) and the course in general which was called "Linux systems for cybersecurity" was very helpful with learning about the internal components of cybersecurity. Similar to Cyber operations, in this class we both learned and practice hands on with various concepts which I enjoyed doing because doing something hands on allows you to get a better feel for that information. This class allowed me to get a basic knowledge of many different concepts just like this assignment which will better help me when I start to do more within the cybersecurity world.

Critical Thinking

Artifact 1: Social implication of Digital self defense

The reason why I chose to add this artifact into this section is because I think this is a good example of a time I had to critically think about a specific topic. Not only did I have to use critical thinking skills to talk about a topic, but I also had to use a different disciple to further explain my opinion or thoughts on that chosen topic. For this paper my topic was the use of digital self-defense, so it was mainly a cybersecurity topic. However, I had to talk about it in a sociological viewpoint. Society may view technology in different ways, but everyone uses it to a certain degree. "Society is increasingly reliant upon complex and interconnected cyber systems to conduct daily life activities. From personal finance to managing defense capabilities to controlling a vast web of aircraft traffic, digitized information systems and software packages have become integrated at virtually all levels of individual and collective activity" (Linkov 2019). Writing this paper allowed me to us critical thinking skills because I had to think about the different ways that society would use digital self-defense, as well as think about the possibilities of what could happen if they were given full permission to digitally self-defend. If you think about it, technology is still a pretty new concept that is still being explored and it is continuously evolving by each passing day." we are all at an infantile stage of the development of the web. The outcome of the impact this development will have on us in the future, in the long run, hinges on the importance for our children of their development with the web" (Pereira 2018). The way that we utilize and build on the internet now will impact future generations and that is something that you have to really think in depth about.

Artifact 2: Artificial Intelligence in society

On the topic of Interdisciplinary research, this paper is one that challenged my abilities as a writer. This paper was done in my interdisciplinary class, and it required us to ask a complex question and we had to try to come up with a solution using different disciplines. With this paper this was my first-time hearing about interdisciplinary research, so I was not sure what to do for it but as I learned more and more about it, it started to make more sense. Interdisciplinary or integrative studies is what happens when researchers go beyond establishing a common meeting place to developing new method and theory crafted to transcend the disciplines in order to solve problems (Newell, 2001; Repko, 2005). After completing the class, it allowed me to think more critically about topics and to look in different disciplines to try to find the answer. I would also say that this paper is one that I was very pleased with due to the amount of challenge and effort that was put into this. Artificial intelligence was not an easy topic to talk about, much less find research in different fields. The fields that I used to try to answer the question of if the use of Artificial Intelligence being used to technologically advance our society or causing a detriment were sociology, economics, and ethics. I used those three disciplines because I felt like those were the ones that would of better help solve the question since those are the ones closest to it. All three of those would have been affected by Artificial intelligence in some way which is why I chose to do more research on them. It was interesting to learn about the different scopes on the

same question and this paper is one of my artifacts that I would show off to demonstrate my critical thinking ability.

Artifact 3: Research project on electric vehicles

This assignment was a group project that I did that allowed us to pick out own topic to research and come up with our own model and theories as well as hypothesis along with them. Every aspect of this project allowed us to critically think about what information to use and how to place it within our project. Our topic was "Customer satisfaction with Electric vehicles" and we had to utilize all the steps to a research paper as well as come up with our own model schematic. I enjoyed how the project turned out to be and I think that this project itself not only utilized a lot of critical thinking skills, but I think that working within a small group allowed for more critical thinking because of the number of different ideas and having to try to create one singular project that incorporates everything that we researched and designed for the project.

Conclusion

To finish off this reflection, I have been through a lot of different experiences in my college career that has led me to this specific point in my life. I have gained many skills and perfected many more that I will continue to hone throughout my professional life past college. These three skills that I have talked about in this reflective writing as well as the examples are the ones that I believe that I have continuously preformed greatly at in various occasions. To writing pieces and to hands on labs, I have demonstrated my ability to use technical, writing, and critical thinking skills to the best of my ability. The artifacts in my eportfolio are only a fraction of the achievements and demonstrations of my abilities that I will use after college and in the professional world as well as my personal life.

Works Cited

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