

Cybersecurity Professional Career Paper

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Introduction

As the world and data becomes increasingly digitized and relies more on the internet, such information becomes a target for cybercriminals. Every day people, businesses, and even the government can become targets. However, there are professionals that exist to prevent and manage this. Cybersecurity analysts are professionals who specialize in protecting infrastructure, managing vulnerabilities, and keeping things safe and working. “Despite its importance, the position remains broad in scope” (A. Ramezan). They are an absolute necessity to protect websites, software, infrastructures, and more. Without cybersecurity analysts, these things would be left vulnerable to data breaches, theft, ransome, and more illegal activities. In this paper, it will cover such topics and its connection to the social science principles, along with course concepts.

Social Science Principles

Of the seven social science principles, many of them do relate to cyber analysts. Determinism and Objectivity are the top two that seem to resonate most with this profession. Determinism is the idea that behavior is influenced and determined by past events. When handling cybercriminals, this is something that heavily relates to it when trying to predict what they may do. For objectivity, remaining objective is important as to address things with an unbiased mind. However, not acting on emotion and remaining impartial can sometimes be difficult depending on the situation.

Applications of Key Concepts

Almost all jobs in some way have connections to the social sciences, and cybersecurity analysts are no different. Being an analyst means having to interact with others, give/recieve support, and calculate what a cybercriminal may do. Though it may not seem like it, there is a lot of communication that is required for the job. One person may not always be able to handle the workload of protecting an entire system, thus working in teams or with a group is quite often necessary. Accuracy and efficiency is crucial in isolating and eliminating threats, and much more manageable with said groups.

Marginalization

Cybersecurity in general affects marginalized groups in a variety of ways. Certain groups may be targeted more than others such as women, people of color, and LGBT individuals. "... Taking advantage of not just single individuals but collectives" (K. M. Carley). Things like harassment, doxxing, and other malicious intent are unfortunately some times they may have to experience. And for other marginalized groups, such as those with lower income or those with disabilities who may not have access to proper education/understand internet safety may fall for things like phishing scams, romance scams, and clicking on suspicious links. With these issues, education of online safety is quite important as to better protect these groups of people and everyone.

Career Connection to Society

Cyber analysts are crucial in keeping infrastructure safe. Everyone relies on this in many ways as they support societal infrastructure such as hospitals, banks, and government services. They are prime for attacks because the data that they have is incredibly valuable. So, analysts work hard in patching any vulnerabilities, preventing malware attacks, and keeping things stable. If something were to happen where something is overlooked or malware was able to come in contact with such information or systems, numerous problems can arise from data leakage, threats, and even ransoms.

Conclusion

In conclusion, cyber analysts are absolutely crucial as they do a lot in keeping systems secure and data safe. This profession doesn't only have a technical side, but a human one as well. They help and shape society in a number of ways that significantly impacts everyone for the better.

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