

Career Paper

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07APR2024

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Cybersecurity has emerged as an essential field as it protects data systems from being attacked by malicious people across the world. There has been an increased demand for cybersecurity professionals, including analysts, as most people are engaging with advanced technology. Also, cybersecurity analysts and other professionals are exploring social sciences to understand societal dynamics and human behaviors better. As a result, cybersecurity analysts are tailoring educational and awareness programs to address unique security needs among individuals from different communities. Moreover, they utilize social science principles to craft security policies. Hence, the essay will explore cybersecurity analysts' roles through the integration of social science into cybersecurity.

Most cybersecurity analysts utilize insights from social sciences research and principles to understand societal dynamics and human behaviors better. Such understanding significantly helps them manage and prevent threats such as phishing (Montañez et al., 2020). The knowledge of social sciences influences the mitigation of such risks by developing the most appropriate measures. Also, cybersecurity analysts can craft effective educational programs by understanding cognitive biases among individuals. Furthermore, cybersecurity analysts can integrate social science insights to counter-interact the ever-changing strategies employed among malicious actors. As a result, they empower organizations and individuals to protect their sensitive data from cyberattacks.

Over the years, marginalized groups have been significantly affected by cyberattacks compared to other groups. According to Dubois et al. (2022), low-income earners, for instance, have disproportionately suffered from cybersecurity incidents worldwide. Hence, cybersecurity analysts should develop measures that include all communities regardless. When assessing risks

and implementing preventative measures, they should consider the unique needs of all groups. Moreover, they can integrate cybersecurity measures accessibilities for more effective security outcomes. The analysts will, as a result, overcome possible systematic barriers that hinder marginalized communities from fully accessing technology. Eventually, cybersecurity analysts will develop a safe digital environment for everyone in society, regardless of their status.

There is a need to incorporate social science concepts into cybersecurity careers, especially when addressing related threats. In cybersecurity careers, people can apply social sciences principles to establish education and awareness programs. According to Igor Bernik (2023), applications allow them to align the programs with specific and unique needs among the communities. Also, these professionals can design educational resources that communicate security best practices effectively through a better understanding of how individuals understand information. Social sciences also inform cybersecurity policies that consider technical requirements and ethical, and societal impacts. Cybersecurity career, people can leverage social science principles to align security measures with regulatory standards (Igor Bernik, 2023). In conjunction, the practice helps in promoting accountability within organizations. Also, cybersecurity professionals can apply social science in crisis management. That enables the professionals in this field to navigate challenges related to organizational behaviors. Also, cybersecurity professionals can effectively manage cybersecurity issues through a better understanding of public communications and relations. Eventually, they foster trust in organizational security measures among individuals.

Conclusively, there is a need to integrate social science concepts into cybersecurity careers to address related challenges effectively. Cybersecurity analysts, for instance, can leverage social sciences insights to establish tailored educational programs. Such leveraging will

help align security measures with ethical requirements. In addition, that can help them employ interdisciplinary approaches to enable individuals and organizations to overcome such threats effectively. Furthermore, continued social science principles integration into cybersecurity practices will significantly enhance security awareness and safety among all individuals.

References

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