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11/24/2024

# Career Paper

## Introduction

I chose to base this career paper off the information security analyst career path. The basic overview of this job type is that they oversee an organization's computer systems and networks. This can be done in a variety of ways, such as the planning and implementation of firewalls and encryption programs, educating the rest of the staff and employees that work at said organization, and propose strategies that mitigate overall risk as well as the risk associated with network efficiency. Those are just a few of the duties that an information security analyst might have when they are working for an organization.

## Body

Shifting gears a little bit, let's talk about the overall composition of the workforce in IT fields. Many people who work in Cybersecurity are men, and while there are female members of this workforce it is much lower than males. This could be seen as a marginalized group of individuals that are working in this space; however, this is mainly due to the choices that are made by these individuals. It is also to point out that there are challenges that are present within this type of career, one of the biggest is the levels of stress that many are subjected to. Along with this, there is the human factor that must be considered, many information security analysts must deal with employees not

following procedure, leading to possible breaches. Lastly, the threats that they contend with are constantly changing and evolving, this means that they must always work to stay informed and ahead of potential threats.

## Body continued

Next, looking at this career through the lens of social science, understanding the motivations and behaviors of individuals is a key aspect of being an information security analyst. Various concepts are important to understand when talking about this job, social engineering is a tactic that is commonly used in attacks to gain information or access to a target, such as an email that is designed to force urgency and to give personal information. Risk assessment is another crucial aspect, understanding the potential impact of attacks and breaches helps to better formulate strategies that mitigate risk across the board. Understanding user behavior is essential in formulating a defense plan against potential attacks and breaches, knowing where vulnerabilities are in an organization human or otherwise is critical. Lastly, education of concepts and risks to non-cybersecurity personnel is also a very important aspect of making sure that breaches are kept to a minimum.

## Body continued

Another key factor to remember is that cybersecurity is an interdisciplinary field, and as such requires an interdisciplinary perspective to face many of the challenges and find solutions to them. When discussing the cybersecurity field, it is important to also note that fields such as philosophy, economics, and many others all have aspects of their own ways of thinking sprinkled into the

thought of cybersecurity. This makes it a field of endless change and evolution, keeping up to date with the latest technology, as well as understanding why people do what they do is all part of making sure that systems and data are protected and safe.

## Conclusion

In conclusion, the information security analyst career is one of challenges and constant evolution, but also one that is essential for the modern world. The protection of systems, networks, and the data that is contained within them is crucial, and without these careers it would not be possible.

Without these careers breaches and loss of data would be a monumental problem, more so than it currently is, but thanks to the people that take jobs such as the information security analyst, we can all rest a little easier.

## Sources/References

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