

Hector Gomez

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CYSE 368

Reflection Paper 6:

As we are coming up to the end of the semester, we have completed 300 hours of this internship. Throughout the last 50 hours of the internship, we began to build and incorporate code for firewalls. These firewalls would be implemented into the VR headset for multiple reasons. These 50 hours were off to a rough start as well but we have gained more information regarding firewalls and incorporating them into VR headsets. Some options that we found were Network traffic filtering, Access control, and intrusion detection and prevention. Network Traffic filtering: is typically implemented in devices such as firewalls, routers, or any equipment that governs data flow within a network. This firewall can block unauthorized access attempts and prevent malicious data from entering or leaving the device. These devices use access control lists (ACLs) or filters to manage internet traffic. Access control: Firewalls provide the ability to control access to the protected network. The network could be effectively sealed off from unwanted access or allow limited access to mail servers or information servers. Intrusion detection and prevention: two broad terms describing application security practices used to mitigate attacks and block new threats. These things are what we want to implement within this VR Headset to make it secure and viable. We may not be able to complete these tasks fully based on how we are still learning but hopefully, in the future, it will be done and be efficient. This completes the 300-hour mark of this internship and I am very grateful to have this opportunity to gain more knowledge and experience within the cybersecurity field.

<https://cyberpedia.reasonlabs.com/EN/traffic%20filtering.html>

<https://mason.gmu.edu/~afinn/html/tele/components/firewalls.htm#:~:text=Access%20Control,m ail%20servers%20or%20information%20servers.>

<https://www.imperva.com/learn/application-security/intrusion-detection-prevention/#:~:text=Intr usion%20detection%20and%20prevention%20are,using%20an%20intrusion%20detection%20sy stem.>

