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INVENTION AND INNOVATION EXHIBITION (I-JaMCSIIIX) 2023

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Cyberforce: A Cybersecurity Fps-Based Game

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Abstract—The influence of COVID-19 pandemic caused people to choose online platforms as their primary choice for learning, entertainment, and socializing. With increasing exposure to the internet, a lack of awareness of cybersecurity issues will concern the safety of online users as they might expose themselves to cybersecurity threats. The ignorance of cyberattacks is due to the lack of knowledge on how cyber-attacks perform and their effects. Several cybersecurity games had developed to push cybersecurity awareness but lack of attractive genre that drags the interest of people to play the game and learn about cybersecurity. Considering this issue, a cybersecurity game titled “Cyberforce” has been developed to provide awareness while showing a more graphical concept of how cyberattack takes place through a fun learning experience. The free Unreal Engine 4 Core Game Launcher is used as the game engine to create Cyberforce. Besides that, it has a variety of assets to choose from to develop the game which is very beginner friendly. In conclusion, learning through playing games will open their minds and have some insight into cyberattacks. While learning by playing games is fun, it is good for them to digest the knowledge easily without pressure.

Keywords— *Cybersecurity awareness, game, attack*



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