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Iot In Everyday Life

Introduction: Dangers Of Smart Gadgets

(1) According to the National Institute Of Standards and Technology “The CIA triad (Confidentiality, Integrity, and Availability) is a foundational cybersecurity model designed to guide policies for protecting data. It ensures sensitive information is accessed only by authorized users (Confidentiality), data remains accurate and untampered (Integrity), and systems are accessible when needed (Availability).” The CIA Triad was created/evolved from the years 1970 to 1987, over 36 years ago, and since then so much has changed. From that time, the consumer world now has full access to the internet and many other different low or high tech devices. We have turned all sorts of plain gadgets into digitalized powerhouses for our daily convenience, but I believe that those creations were a bit shortsighted because they seemed to become giant security nightmares.

Body: Dangers Of The Cloud

(2) First off, I believe that our current adherence to the “A” within the CIA triad has outpaced our ability to protect individual security. This lack of security shows to be prominent in the creation of permanent digital footprints that serve as liabilities rather than assets. Everyone wants to post their life and save as much as they can inside of digital databases like cloud storages.

Google Cloud expresses that “Cloud storage is a service that saves data on remote servers accessed via the internet, rather than on local physical drives. Key providers like Microsoft OneDrive, Google Drive, and iCloud allow users to store, manage, and share files across devices securely, with options for personal, business, or hybrid needs.” I think that it is great that these storage banks are readily available 24/7, but at the same time, there is an insane amount of critical, personal data that resides throughout them. All it takes is one malicious hacker group to find an exploit and then they would have complete access to maybe millions of people's medical info, family records, finances, and sensitive photos.

Body: The rush to connect everything

(3) Furthermore, since the 1980s time period, there has seemed to be an insatiable crave to turn the average household object into something close to a robot. The people of the past thought almost nothing negative about a future driven by transparent connection between the physical and digital world. I wholeheartedly believe that this can be used as an example of the Short Arm of Predictive Knowledge because in 2026 that wish is finally being granted with AI. Everything from toasters to entire houses is connected to the internet or filled with an AI chatbot. This is a major problem in my book because the “air gap” is steadily closing; as in, the gap between isolated mainframes and networked architecture. Once again, all it takes is one individual to figure out how to exploit a vulnerability on a semi-large scale and everything you do within your “safe spaces” will be utterly compromised.

Conclusion: The Answer

(4) Truthfully, we might have honestly progressed so far forward that the current dangers and connections may be irreversible. The internet is everywhere and is basically tied to everything

used within 1st world nations. On the contrary, some would see the previous sentence as a truly good thing because faster communications and more efficient processes grants development, but we must recall the paragraphs above as to how too much connection can lead to huge tragedies if the infrastructure is targeted and taken down. Congruently, AI has a complete mind of its own that can probably turn on the human race at any moment. So, in order to properly mitigate future dire catastrophes we must train up the youth or people my age in cyber defense, cybersecurity. We are the only ones that stop others from destroying and exploiting the things that we hold dear. Vulnerabilities will always arise and there will always be someone out there looking to cause havoc via ransomware, basic viruses, and phishing attacks. For those reasons, I believe we must pivot back to somewhat separating the digital world from the physical. Now, I know that may slow down certain business processes but we must think of the long term benefits. Our digital security is equal to the worth of every precious jewel in comparison to a few dimes. The CIA Triad must be kept and upheld to the highest degree possible.

Work Cited

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