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Professor Duvall

In class exercise - Ms Doris Locking

BLUF

BLUF: Today in class we had Ms. Doris Locking come and talk to the class about the influence that cybersecurity has on the medical field, biocybersecurity, and her experiences in the field.

Dark web and Medical

One thing that was brought up that I would like to talk about is the dark web and its ties with the medical field. Ms. Locking told us about how the medical field continues to grow, it continues to become intertwined with the dark web. We were informed about how medical records and personally identifiable information (PII) are being sold and bought for hundreds of thousands of dollars as it contains details like our social security number (SSN) and health histories. Many systems in healthcare, including key pieces of equipment such as the magnetic resonance imaging (MRI) machine, are at risk as they are outdated and vulnerable for hackers to take advantage of. We were also informed of the penalties that an organization or worker may face for a data breach, such as: legal actions, fines, and patient trust.

Career Path

Another thing that caught my interest in the presentation today was when Ms. Locking went on to talk about possible career paths for a cybersecurity major in the medical field. Ms.

Locking told us the two jobs that would suit a cybersecurity major in the medical field are being a compliance analyst or a security engineer. A compliance analyst role in the medical field is to monitor the organization or hospitals' activities regarding compliance for things such as legal or ethical requirements. A security engineer's role is to help develop and implement security measures to protect the systems and the patient's data. Of the two jobs that Ms. Locking told our class about, I would say that being a security engineer caught my interest as the job seems very rewarding and is great for a cybersecurity major as we should always be processing and developing new security measures.

Doctors and using AI

Ms. Locking talked about a new advancement in the medical field, being the use of artificial intelligence (AI) to take notes instead of having nurses do so. We were informed that the use of AI to do these notes not only saves time but also takes away human made, but causes safety and privacy issues. If a patient's data is being recorded by AI and it is not being properly secured, it could lead to a data breach of information. We were also told that this type of data breach could have major penalties, which are the same as that of dark web and medical records being breached.

Conclusion

In conclusion, Ms. Locking taught us many valuable things regarding the medical and cybersecurity field being intertwined. We were taught about dangers regarding the dark web and our data, jobs using cybersecurity in the medical field, and the use of AI in the medical field. We were made clear about the importance of patients' privacy and data security, as well as the repercussions of a data breach. Overall, Ms. Locking gave us so much valuable information and we should remember what was told to us.

