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8-2 Journal Reflection

This course provided great insight into how important secure coding standards are. What I had preferred is to have been introduced to it earlier. I believe it would have made the transition more straightforward as I find myself coding the same way I have been accustomed to.

Adopting secure coding standards should be common practice if used efficiently. It will minimize the risk of breach, denial of service, loss of service, loss of life, damage to system infrastructure, compromised data, code injection flow errors(buffer overflow, buffer underflow). However, incorporating such coding standards needs to be applied and tested. Static testing and automated testing are tools that can be implemented. However, the most critical component is the human interface.

The zero-trust model is a recommended approach and should be followed every time. I was always guided by many not to trust code written by others and question its authenticity if warranted. Zero trust methodology relies on granting access to the appropriate user. However, certain articles I've come across rebuffs the zero-trust model. The article claims that fully adopting zero trust over the existing model would cause the design and shift out of the entire infrastructure, enduring extreme monetary expenses, time delays. A few other articles mentioned that some secure coding practices that are not implemented effectively could expose vulnerabilities in the code as some organizations don't emphasize the need for security, and some simply lack the knowledge to fully implement secure coding practices.

It is also wise to understand the motive for the attack, as some hackers are not motived by monetary greed or have hidden political agenda. Some hackers often expose secrets for the greater good. Some simply to prove their skillsets are unmatched and to showboat.

**References**

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