**5-2 Coding Assignment: Certificate Generation**

Richard Howell

SNHU  
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1. *Written component discussing the use and value of utilizing certificate authorities.*

Certificate authorities also known as CA’s are used to validate and identities of websites and organizations online. “The main goal of a CA is to verify the authenticity and trustworthiness of a website, domain and organization so users know exactly who they're communicating with online and whether that entity can be trusted with their data” (Awati & Loshin, 2021). The main benefit of using CAs is that the identity of the certificate holder is verified by a trusted third party. This use of CAs also helps secure the internet’s use for both the user and organization. This is why we should use CA’s as a tool for software security. It protects the users as well as the organization developing the software from untrusted sources. This helps protect and facilitate financial transactions through online vendors and ensure users PII is safe and secure while using the internet. CA’s can also protect online documents by ensuring that a third party has not altered or modified the document in any way.

1. Text

   Description automatically generated*Screenshot of the certificate information form filled out with all fields completed.*
2. *Text

   Description automatically generatedScreenshot of the printout of the server.cer file*

**Citations**

Awati, R., & Loshin, P. (2021, September 1). certificate authority (CA). Security. https://www.techtarget.com/searchsecurity/definition/certificate-authority