

SAMIR OMAR AMINZAY

Cybersecurity Student

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EDUCATION

Bachelor of Science in Cybersecurity

Old Dominion University

School of Cybersecurity, Norfolk, VA

Aug 2020 - May 2023

SOFTWARE PROFICIENCY

Ubuntu | PyCharm & Sublime Text Editors | Apache NetBeans | Linux | Cryptography | Mac OS Programming

Languages: Java, Python, JavaScript, C++

HIGHLIGHTED CYBER PROJECTS

RSA & Elgamal Signature Scheme Project – Python

<https://bit.ly/RSA-Elgamal>

- A program that prompts the user to choose between using RSA & Elgamal signature schemes and compute the calculations for the desired type of encryption.
- Constructed a program that asks the users input whether being Elgamal or RSA. Displayed the use of modular arithmetic and encryption. With the implementation of an if, elif, else loop. Displays the use of two def functions to help find the gcd and inversive to complete encryption. Also pertains a built-in verifier to ensure that the encryption was successful.
- Created a successful program that computes and encrypts the users input and displays the desired encryption type.

Password Cracking Project Ubuntu – Linux

<https://bit.ly/PswdCrack>

- Used the John-The-Ripper function to crack the new user's passwords.
- Constructed six new users and generated different passwords for each user. Displayed the use of the hash function to display the users and passwords. Compiled the following users into the tail function. Implemented the John-The-Ripper function to crack the passwords.
- After a duration of ten minutes. Achieved a fifty percent success rate. Three of the six passwords were successfully cracked.

Wireless Network Security Project VMware - Kali Linux

<https://bit.ly/WNS-project>

- Cracking and analyzing the Wired Equivalent Privacy (WEP) traffic and the Wi-Fi Protected Access(WPA/WPA2) traffic
- Decrypt and encrypt the WEP packets. Usage of the aircrack function. Locating the key for decryption. Using the key to break the traffic encryption. Usage of the password and SSID to successfully decrypt the traffic.
- Achieved a hundred percent success rate. Successfully decrypted the traffic and located the key.

Creating New-Directories Project Ubuntu - Text Editor & Terminal

<https://bit.ly/New-Dir>

- Creating A Shell Script Inside of Ubuntu with the use of the Text Editor and the Terminal. Creating a If, Elif, & Else function to help find out if the file is existing or needs to be created.
- Ask the user the desired file or directory name. Runs through the created code to find if the file or directory has been existing or not. If it isn't existing, then it will create the new file or directory.
- Achieved a hundred percent success rate. Successfully displays if the directory is existing or creates a new one based on the user's input.

Displaying Directories Project Ubuntu - Text Editor & Terminal

<https://bit.ly/Display-Dir>

- Creating A Shell Script Inside of Ubuntu with the use of the Text Editor and the Terminal.
- Ask the user the desired directory and name. This will compute if the directory is valid or available. It will display all of the directories from the users desired location.
- Achieved a hundred percent success rate. Successfully displays if the directory files are valid.