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PROFILE

Birth date: 25/07/2000

Nationality: Italian

Gender: Male

LANGUAGE

Italian - Mother tongue

English:

- Listening B2 - Reading B2
Writing B1 - Speaking B1

Alberto Montefusco

MSc student in Cybersecurity

Determination and curiosity are the keywords that best describe my personality. I am a cheerful, ambitious boy with a strong desire to work in a team. My dream is to become a real expert hacker by specializing in Network Security or IoT Security by working as a penetration tester and joining the red team.

Education

10/2022 - CURRENT

University of Salerno | Fisciano, Italy

Master's degree in Computer Science LM-18

- Field of study: Cybersecurity
- Missing exams: 1
- Weighted average: 29,46

Main subjects include cybersecurity concepts, penetration testing, cryptography, and practical and theoretical notions of digital forensics. The program also includes language exam (English) and projects related to Artificial Intelligence (especially machine learning) and security in blockchain.

09/2019 - 09/2022

University of Salerno | Fisciano, Italy

Bachelor's degree in Computer Science L-31

- Field of study: Computer Science
- Awards: 110/110 cum Laude
- Thesis title: Implementation of a system of authentication using the Ethereum blockchain

Main subjects include analysis and algorithm designs, procedural and object-oriented programming and telecommunication networks. In addition, the program includes device programming in IoT and design and management of large software systems.

09/2014 - 07/2019

Bonaventura Rescigno | Roccapiemonte, Italy

High School Diploma

- Field of study: Scientific Area
- Awards: 87/100

Other Experiences

Volunteering

2016 - 2019

Maryland | Castel San Giorgio, Italy

Kid's Entertainer

When I am 16 years old, I started Kid's Entertainer career starting to relate to other old people and starting to take on all the responsibilities that were entrusted to me.

PROJECTS



PassChain

PassChain is an IoT device to store user's credentials (username and password) and send them to other devices with a Bluetooth connection. Datas are encrypted with AES-128 bit in GCM mode and the board setup is made connecting PassChain to a server Python with an SSL communication. Each operation is authorized only if the user authenticates himself with a fingerprint.



Penetration Testing IoT System

A penetration testing process was carried out on an asset related to an IoT cloud-based architecture representing a smart home. It was used a black box approach. To perform the analysis, an appropriate simulated environment was configured, allowing interaction with the asset to examine and detect its vulnerabilities. The vulnerabilities detected could allow an attacker to obtain full control of the system by assuming the role of administrator.

CERTIFICATES



Cisco Cybersecurity
Scholarship 2024



CyberChallenge 2022

HOBBY AND INTERESTS



Swimming



Solving CTF and
logic problems



My Blog dedicated to
Network Science

Technical Skills

Cybersecurity Skills

- Excellent knowledge of tools for sniffing and analyzing traffic such as nmap, wireshark, tcpdump.
- Distinct knowledge on creating, attacking and defending a virtual network infrastructure using GNS3;
- Distinct knowledge of Onion Routing structure (Tor, FreeNet) for anonymity practices;
- Good knowledge of firewalls management / configuration of ACLs;
- Exploit web sites with buffer overflow, SQL Injection, XSS attacks.

Penetration Testing Skills

- Excellent knowledge of target discovery tools (ping, fping, nmap, arp-scan, hping3);
- Excellent knowledge of Metasploit tool;
- Distinct knowledge for digital forensics tools (dc3dd, Foremost, Scalpel, PhotoRec, BulkExtractor, Volatility, Autopsy, Plaso, Xplico);
- Distinct knowledge of vulnerability mapping using tools like Nessus and OpenVas.

IoT Security Skills

- Optimal knowledge of Arduino, ESP32, Raspberry Pi and boards programming;
- Optimal knowledge of Arduino, Python and MicroPython language;
- Good knowledge of implementation of lightweight cryptography with wolfssl library.

Other Skills

- Excellent knowledge of machine learning algorithms;
- Excellent knowledge of ISO/OSI stack;
- Excellent knowledge about virtualization (VMWare, VirtualBox).
- Excellent knowledge of Linux based systems and good knowledge of Windows systems
- Distinct knowledge of programming languages such as C, Java, Python.

Organizational Skills

While attending university, I learned to develop projects of varying sizes in collaboration with my colleagues. I learned to merge into one optimal idea both my own solutions and those proposed by the members of my group. At times I also took on the role of project manager: I managed deadlines and resources collective, and I learned to take on all the responsibilities entrusted to me, leading to the success of all projects.

Communication and Interpersonal Skills

I enjoy working in teams, sharing my ideas and paying attention to others. In this way I am able to improve my skills both technically and socially. I share my ideas in a clear and concise thanks to the various projects I participated in during my years of study at the University of Salerno. I can also work alone, carefully managing anxiety and time. In addition, I adapt easily to changes and pay close attention to details.

Privacy Policy

I authorize the processing of my personal data in the CV in accordance with art. 13 d. lgs. 30 June 2003 n. 196 - "Code regarding the protection of personal data" and art. 13 GDPR 679/16 "European Regulation on the Protection of Personal Data personal data."

Nocera Superiore, 16/06/2024

Alberto Lentefuso