



CYBERSECURITY

SEMAH BENALI

CONTACT ME

✉ sameh.benali@insat.u-carthage.tn

in [/in/semahbenali/](https://in.semahbenali/)

📞 +21699110498

🔗 <https://github.com/SemahBA>

🌐 <https://semah-benali.me/>

EDUCATION HISTORY

NATIONAL INSTITUTE OF APPLIED SCIENCES AND TECHNOLOGY

Pre-Engineering:

- Mathematic-Physics-Informatic
- Computer Science, Networks and Telecommunication

Information security Engineering

- Networks and Telecommunication
- Cybersecurity

Pioneer High School

Bachelor Degree

- Graduated high school in 2017
- Mathematics

WORK EXPERIENCE

INTERNSHIP

Nexstep | 09-2020 to 11-2020

- Malware analysis using cuckoo.
- Creating Linux host machine and 4 guest hosts for test purposes.
- The test starts on a snapshot created on a newly installed host.
- Reporting.

INTERNSHIP

Athena | 07-2020 to 09-2020

- Building a pentesting platform, and creating machines with different vulnerabilities

ACHIEVEMENTS

🏆 First Place In CSAW MENA CTF Finals (Middle East North Africa)
By New York University

🏆 First Place Hackzone CTF 2021

🏆 Challenge Creator at AtHackCTF 2021 [Cryptography, Forensics]
<https://athack.com/>

🏆 Top 50 team worldwide

🏆 3rd Place TT Security Day by Tunisie Telecom Operator

🏆 Hosting CTfs with Securinets Association, and The CTF reached top 1 CTF MENA region (Securinets Quals)

LANGUAGES

Arabic

- Native or Bilingual Proficiency

English

- Full Professional Proficiency

French

- Professional Working Proficiency

German

- Elementary Proficiency

INTERESTS

CTFS | Sport | Music | Pentest | Forensics

PERSONAL PROJECTS

Cryptography Project

- Delivered a program that encrypts the files and their contents with a very secure algorithm and makes a backup to them.

Custom Ransomware Development

- Had the chance to create custom ransomware that encrypts all the target data using AES-CBC encryption and encrypted the key with the RSA algorithm! The ransomware also locks the target's pc entirely, no keyboard press no mouse moving! Developed with PYTHON.

DevSecOps Tool

- A pipeline tool that tests the vulnerability of a code given from URL or ZIP uploaded project. The Tool tests the top 10 OWASP vulnerabilities and returns the vulnerable functions (and line numbers) and offers possible solutions/mitigations.

Fword CTF

- Hosting a CTF (Capture the flag) Competition that has more than 1200 participants and more than 900 teams.
- Creating Reverse Engineering, Cryptography, and Digital Forensics challenges.

Infrastructure for CTF Competition

- I have developed a CTFd infrastructure to maintain more than 5000 users at the same time. It consists of Cloudflare SDN to mainly protect from DoS Attacks. I used Azure load balancer to balance traffic between 2 VMs, each one containing 4 replicas of CTFd that were orchestrated using Docker Swarm. For static storage, I used s3-bucket. For caching, I used the Redis Caching server. And, another VM for the MySQL.

ORGANIZATIONS

SECURINETS TECHNICAL DIRECTOR

- Organizing and hosting CTF competition.
- Supervising the work of each team.
- Managing Introduction to Penetration Testing training sessions.

Securinets Technical Member

- Organizing and hosting CTF competition.
- Managing Custom Ransomware training sessions.

ACM (Association for Computing Machinery)

SKILLS

PENETRATION TESTING

- Enumeration
- Scanning
- Exploitation

CRYPTOGRAPHY

DIGITAL FORENSICS

- Memory/Disk Analysis
- Networking

WEB EXPLOITATION

WEB DEVELOPMENT

- Django/Flask
- WordPress

LINUX