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Experience

OpenMined Remote

CRYPTO TEAM MEMBER

Developing TenSEAL, a library for doing homomorphic encryption operations on tensors.
Doing research and experimentation on applying homomorphic encryption to deep learning.

Deloitte Algiers, Algeria

CYBER SECURITY INTERN Feb. 2020 - Mar. 2020

· Perform web applications assessments and network penetration testing.

• Document and report findings, along with remediation recommendations and validation.

Realistic Security Remote

System Administrator (Part Time)

May. 2019 - Dec. 2019

Apr. 2020 - Present

- Build a penetration testing training lab.
- Ensure proper security and configurations for the infrastructure for production servers.
- · Manage and maintain multiple virtual machines.

El Djazair Information Technology (ELIT)

Algiers, Algeria

Cyber Security Intern Sep. 2018

• Perform WAF evasion and bypass tests on FortiWeb.

Education

ESI-SBA (Ecole Supérieure en Informatique 08 Mai 1945)

Sidi Bel Abbés, Algeria

MASTER'S DEGREE IN COMPUTER SCIENCE

Sep. 2015 - Sep. 2020

Feb. 2017 - Present

Core Competencies

- Problem Solving
- Penetration Testing & Exploit Development
- Reverse Engineering & Malware Analysis
- Linux System Administration
- DevOps
- Backend Web Development

Skills_

CTF PLAYER

Programming Python, C, C++, GO, Shell Scripting

Frameworks & Technologies Flask, Django, MongoDB, Redis, MariaDB, SQL, XML

Tools Docker, Git, Github Actions
Tools GDB, IDA, Ghidra, Radare2
Others x86 Assembly, ARM Assembly

Languages Arabic (Native Proficiency), English (Professional Working Proficiency), French (Limited Working Proficiency)

Extracurricular Activity _____

Sudo_root (CTF team)

Algeria

• Participated on a lot of CTFs (Hacking Competitions).

- · Gained expertise in hacking & security areas, especially about reverse engineering, exploit development and cryptanalysis.
- Gained expertise in penetration testing & code auditing.
- Working with teammates to consistently learn and share skills.
- Successfully managed to organize and design local CTF competitions.

AUGUST 29, 2020 BILAL RETIAT · RÉSUMÉ



TenSEAL OpenMined, Remote

DEVELOPER Feb. 2019 - Present

• TenSEAL is a library for doing homomorphic encryption operations on tensors, built on top of Microsoft SEAL. It provides ease of use through a Python API, while preserving efficiency by implementing most of its operations using C++.

Malware Revealer ESI-SBA, Algeria

DEVELOPER

Mar. 2019 - Nov. 2019

• Malware Revealer is a malware classification framework, designed primarily for malware detection, it contains a modular toolset for feature extraction, as well as pre-trained models and a ready to use web API for making predictions.

Volunteer Experience

Docker Sidi Bel Abbes Chapter

Sidi Bel Abbes, Algeria

Nov. 2018 - Present

MENTOR

· Provide guidance and helping for newcomers.

· Provide hands-on Docker training.

ESI-SBA Sidi Bel Abbes, Algeria

PYTHON TRAINER

Jan. 2019 - Feb. 2019

· Teaching Python core concepts.

• Provide practical workshops in Python.

ESI-SBA Sidi Bel Abbes, Algeria

C TRAINER Feb. 2019

· Teaching fundamentals of C programming.

Honors & Awards

Aug. 2020 1st Place , CyberTalents - Algeria National Cyber Security CTF 2020	Online
Nov. 2019 2nd Place , CSAW'19 CTF Hacking Competition Final (MENA)	NYUAD, Abu Dhabi, UAE
Oct. 2019 4th Place, HITB+ CyberWeek - Standoff Cyberbattle 2019	HITB+, Abu Dhabi, UAE
Sep. 2019 2nd Place , CyberTalents - Arab Regional Cyber Security CTF 2019	CSCAMP, Cairo, Egypt
Jul. 2019 1st Place, CyberTalents - Algeria National Cyber Security CTF 2019	ESI-SBA, Sidi Bel Abbes, Algeria
Nov. 2017 3rd Place , CSAW'17 CTF Hacking Competition Final (MENA)	NYUAD, Abu Dhabi, UAE

Program Committees

Feb. 2020 Organizer & Problem Writer, AlphaBit Coding Challenge 2nd Edition	ESI-SBA, Sidi Bel Abbes, Algeria
Jan. 2020 Organizer & Problem Writer, Shellmates - HackINI 2k20	ESI (ex. INI), Algiers, Algeria
Feb. 2019 Organizer & Problem Writer, AlphaBit Coding Challenge 1st Edition	ESI-SBA, Sidi Bel Abbes, Algeria

Presentation

MLH Local Hack Day by Ingeniums Club

ESI-SBA, Algeria

ESI-SBA, Sidi Bel Abbes, Algeria

Dec. 2018

• Introduced the Docker Key Concepts.

PRESENTER FOR < DOCKER FROM A TO B>

• Introduced how to dockerize a Django Web Application.

DevDay2.0 by AlphaBit Club

PRESENTER FOR < SQL INJECTION>

Dec. 2018

· Introduced SQL Injection describing some attack and defence techniques.

May. 2018 Organizer & Problem Writer, IngeHack CTF Hacking Competition 1st Edition

• Conducted a workshop on SQL Injection attack techniques.

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