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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

Feb. 2020 - Mar. 2020 CYBER SECURITY INTERN

· 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

#### Lvcée Delmi Bourass Ahmed

Ouled Bessem, Tissemsilt, Algeria

BACCALAURÉAT

Sep. 2012 - Jun. 2015

## 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

**DevOps** 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).

Feb. 2017 - Present

- · 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.

BILAL RETIAT · CURRICULUM VITAE AUGUST 29, 2020

**Projects** 

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.

OpenClass ESI-SBA, Algeria

Backend Developer Mar. 2018 - Sep. 2018

· A Django web application provides all the features necessary for the organization of workshops.

**ESI-LINUX** ESI-SBA, Algeria

Developer Mar. 2017 - Jun. 2017

• Customized Linux distribution for ESI-SBA students provides all the necessary tools for their curriculum.

## **Volunteer Experience**

### **Docker Sidi Bel Abbes Chapter**

Sidi Bel Abbes, Algeria

Nov. 2018 - Present

Jan. 2019 - Feb. 2019

MENTOR

- Provide guidance and helping for newcomers.
- · Provide hands-on Docker training.

ESI-SBA Sidi Bel Abbes, Algeria

Python Trainer

- 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 <b>1st Place</b> , CyberTalents - Algeria National Cyber Security CTF 2020	Online
Nov. 2019 <b>2nd Place</b> , 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 <b>2nd Place</b> , 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 <b>3rd Place</b> , CSAW'17 CTF Hacking Competition Final (MENA)	NYUAD, Abu Dhabi, UAE

# Program Committees \_\_\_\_\_

Feb. 2020 <b>Organizer &amp; Problem Writer</b> , 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
May. 2018 Organizer & Problem Writer, IngeHack CTF Hacking Competition 1st Edition	ESI-SBA, Sidi Bel Abbes, Algeria

### **Presentation**

#### **MLH Local Hack Day by Ingeniums Club**

ESI-SBA, Algeria

Dec. 2018

· Introduced the Docker Key Concepts.

• Introduced how to dockerize a Django Web Application.

### DevDay2.0 by AlphaBit Club

ESI-SBA, Algeria

Presenter for <SQL Injection>

Dec. 2018

• Introduced SQL Injection describing some attack and defence techniques.

• Conducted a workshop on SQL Injection attack techniques.