

Bilal Retiat

CYBER SECURITY SPECIALIST

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Experience

Realistic Security

CYBER SECURITY SPECIALIST

Algiers, Algeria

Oct. 2020 - Present

- Perform infrastructure and application penetration tests across public and private networks.
- Provide security assessment reports with recommended security fixes.
- Conduct incident response and threat hunting.
- Security solutions integration.

OpenMined

CRYPTO TEAM MEMBER

Remote

Apr. 2020 - Spet. 2020

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

Deloitte

CYBER SECURITY INTERN

Algiers, Algeria

Feb. 2020 - Mar. 2020

- Perform web application assessments and network penetration testing.
- Document and report findings, along with remediation recommendations and validation.

Realistic Security

SYSTEM ADMINISTRATOR (PART TIME)

Remote

May. 2019 - Dec. 2019

- 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)

CYBER SECURITY INTERN

Algiers, Algeria

Sep. 2018

- Perform WAF evasion and bypass tests on FortiWeb.

Education

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

ENGINEER'S DEGREE AND MASTER'S DEGREE IN COMPUTER SCIENCE

Sidi Bel Abbes, Algeria

Sep. 2015 - Sep. 2020

Core Competencies

- Problem Solving
- Penetration Testing & Exploit Development
- Reverse Engineering & Malware Analysis
- Incident Response & Threat Hunting

Skills

Programming	Python, C, C++, GO, Shell Scripting
Frameworks & Technologies	Elastic Stack, AppSpider, Nessus, Metasploit, Burp Suite
DevOps	Docker, Git, Github Actions
Tools	GDB, IDA, Ghidra, Radare2
Others	MITRE ATT&CK Framework
Languages	Arabic (Native Proficiency), English (Professional Working Proficiency), French (Limited Working Proficiency)

Certifications

Sep. 2021 **eCIR (eLearnSecurity Certified Incident Responder)**

eLearnSecurity

Mar. 2021 **Elastic Certified Analyst**

Elastic

Projects

TenSEAL

DEVELOPER

OpenMined, Remote

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

DEVELOPER

ESI-SBA, Algeria

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.

Publications

TenSEAL: A Library for Encrypted Tensor Operations Using Homomorphic Encryption

INTERNATIONAL CONFERENCE ON LEARNING REPRESENTATIONS

ICLR

2021

Presentations

Common Cryptographic Vulnerabilities in Applications

HACK.INI 10TH EDITION (SHELLMATES CLUB)

ESI (ex. INI), Algiers, Algeria

May. 2022

- Introduced commons cryptographic vulnerabilities in application.
- Explained cryptography best practices.

Anomaly Hunting with Elastic Stack

BSIDES ALGIERS (SHELLMATES CLUB)

ESI (ex. INI), Algiers, Algeria

Jan. 2022

- Introduced Elastic Stack (Elasticsearch, Kibana, Beats, ...).
- Presented a general understanding of security log data.
- Conducted a workshop on anomaly hunting using Elastic Stack.

SQL Injection

DEVDAY2.0 (ALPHABIT CLUB)

ESI-SBA, Sidi Bel Abbes, Algeria

Dec. 2018

- Introduced SQL Injection describing some attack and defence techniques.
- Conducted a workshop on SQL Injection attack techniques.

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*

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

*ESI-SBA, Sidi Bel
Abbes, Algeria*