Bilal **Retiat**

CYBER SECURITY CONSULTANT

(+971) 55 823 7039 | bilal.retiat@gmail.com | philomath213.github.io | philomath213 | bilal-retiat | philomath213 | Bilal Retiat

Experience

CPX Holding L.L.C.
CYBER SECURITY CONSULTANT

Abu Dhabi, UAE
Mar. 2023 - Present

- Conduct instructor-led training workshops.
- Perform targeted penetration tests and adversary emulation.
- Deliver technical assessments and support in vendor evaluations.
- Content creation for end-user awareness and technical workshop.

Realistic Security
CYBER SECURITY SPECIALIST

Algiers, Algeria
Oct. 2020 - Nov. 2022

- Leading client projects in various sectors: banking, oil & gas and insurance.
- Perform infrastructure and application penetration tests across public and private networks.
- Conduct phishing campaign simulations to test companies' incident detection and response capabilities
- Perform adversary emulation based on attacks from the MITRE ATT&CK framework.
- Provide security assessment reports with recommended security fixes.
- Conduct incident response and threat hunting.
- Security solutions integration.

OpenMined
CRYPTO TEAM MEMBER

Remote
Apr. 2020 - Sept. 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

Certifications

Mar. 2023	**CRTO (Certified Red Team Operator)**	*Zero-Point Security*
Sep. 2021	**eCIR (eLearnSecurity Certified Incident Responder)**	*eLearnSecurity*
Mar. 2021	**Elastic Certified Analyst**	*Elastic*

Core Competencies

- Penetration Testing & Adversary Emulation
- Incident Response & Malware Analysis
- SIEM Use Cases Implementations
- Engagement planning and time management

Skills

Programming	Python, C, C++, GO, Shell Scripting
Security Solutions	Elastic Stack, RSA Netwitness, AppSpider, Nessus
Tools	Burp Suite, Metasploit, Wireshark, GDB, IDA, Ghidra, Radare2, Docker, Git
Others	MITRE ATT&CK Framework
Languages	Arabic (Native Proficiency), English (Professional Working Proficiency), French (Limited Working Proficiency)

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.

Publications

TenSEAL: A Library for Encrypted Tensor Operations Using Homomorphic Encryption   *ICLR*
INTERNATIONAL CONFERENCE ON LEARNING REPRESENTATIONS   *2021*

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*

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

Oct. 2022 **Organizer & Problem Writer,** GDG Algiers - GDG Algiers CTF 2022   *Online*

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*