

Bilal Retiat

CYBER SECURITY SPECIALIST

☎ (+213) 550 07 77 02 | ✉ bilal.retiat@gmail.com | 🏠 philomath213.github.io | 📧 philomath213 | 📺 bilal-retiat | 🐦 philomath213 | 📄 Bilal Retiat

Experience

Realistic Security

CYBER SECURITY SPECIALIST

Algiers, Algeria

Oct. 2020 - Present

- 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

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

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

Presentations

Common Cryptographic Vulnerabilities in Applications

ESI (ex. INI), Algiers, Algeria

HACK.INI 10TH EDITION (SHELLMATES CLUB)

May. 2022

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

Anomaly Hunting with Elastic Stack

ESI (ex. INI), Algiers, Algeria

BSIDES ALGIERS (SHELLMATES CLUB)

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.

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*