

# Mohamed Aziz Sghaier

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## Objective

Eager to start my first role as a Cybersecurity Engineer or Security Advisor starting from the 1st of February. Strong focus on cloud-native and DevSecOps security, with hands-on experience designing and enforcing Kubernetes security policies, and integrating SAST, SBOM analysis, secret detection, malware scanning into CI/CD pipelines and cloud native security. Background in system security, reverse engineering, and data-driven security analysis, with practical projects demonstrating adaptability, automation skills, and strong problem-solving capabilities in real-world security environments.

## Education (BAC +6)

### EURECOM Sophia Antipolis

*Post Master's in Security*

2023-2026

Sophia Antipolis, France

### SUP'COM

*ICT Engineering*

2021-2023

### IPEIN, Nabeul

*Pre-Engineering in Math/Physics*

Tunis, Tunisia (ranked 19/140)

2019-2021

## Skills

- Cybersecurity & DevSecOps:** SAST, SBOM, Secret Detection, Malware Analysis, CI/CD Security, Supply Chain Security, SOC , Siem , Splunk , Fuzzing
- Cloud & Container Security:** Docker, Azure, Kubernetes Security, Policy Enforcement, Runtime Security (Tetragon), Container Image Scanning
- Static & Binary Analysis:** Reverse Engineering, Vulnerability Analysis, Binary Exploitation, Ghidra, Capstone, Sanitizers (ASan, TSan)
- Programming:** C, C++, Python, Bash, MATLAB

- Security Tooling:** Syft, Gripe, Clang-Tidy, Cppcheck, Bear, ClamAV, Git
- Operating Systems:** Linux (Ubuntu), Kernel Internals, System Security
- Networking/Telecom:** CCNA1, TCP/IP, 5G Architecture (RAN, Core), Openairinterface, GSM/LTE/UMTS
- AI & Data Science:** Machine Learning (Stanford-authorized certification), Malware Detection, Feature Engineering, Computer vision
- Languages:** English (TOEIC 920/980), French (Fluent)

## Experience

### BubbleRAN (6 Months, ongoing) — Sophia Antipolis

*End-to-End Security for Cloud-Native 5G & CI Hardening (SAST / SBOM / CI Security / Fuzzing/ Kubernetes / SecOps)* France 2025

- Designed and implemented a **project-agnostic static analysis and security orchestration framework** covering bug detection, secret scanning, malware analysis, and SBOM generation for heterogeneous 5G components.
- Integrated **automated security gates in CI/CD pipelines (secure by design)**, including SAST, dependency and container scanning, continuous CVE monitoring, and security score computation to prevent vulnerable releases.
- Extended testing beyond static analysis using **dynamic analysis techniques**: applied **AddressSanitizer (ASAN)**, **ThreadSanitizer (TSAN)**, and **coverage-guided fuzzing** to uncover memory safety violations, race conditions, and crash-inducing inputs in 5G workloads.
- Developed a **runtime security rApp** for Kubernetes-based 5G network functions, leveraging **Tetragon/eBPF** to monitor execution, enforce least-privilege policies, and terminate unauthorized or malicious processes at kernel level.
- Validated end-to-end security under **realistic attack scenarios**: blocked malware execution, prevented lateral movement across pods, and enforced binary integrity and process allowlisting.
- Produced **consolidated security reports and quantitative scores** combining code quality, supply-chain risk, and runtime exposure to support informed remediation and hardening decisions.

### MOABI Solutions (2 Months) — Sophia Antipolis

*Kernel Symbol Table Leakage : Meltdown / KASLR / Kernel Reverse Engineering*

2025

France

- Exploited Meltdown vulnerability to read protected kernel memory and reveal critical data.
- Combined KASLR prefetch side-channel techniques with Meltdown to locate and leak the kernel symbol table (`__ksymtab`).
- Analyzed leaked data to understand the runtime kernel functions and structure.
- Successfully demonstrated a complete attack chain bypassing KASLR and accessing kernel secrets.

### EURECOM (3 Months) — Sophia Antipolis

*Secure Python Libraries Detection & Malware Analysis*

2024

France

- Designed a hybrid source-based method to detect Python malware.
- Built and labeled datasets; applied ML models to classify malicious PyInstaller binaries.
- Developed a prototype for detecting suspicious Python packages and libraries.
- Reverse engineered PyInstaller binaries to reveal malicious behavior and obfuscation patterns.