

Mohamed Kchaou

DevSecOps and Cybersecurity

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Profile

Final-year Master's student specializing in **Information Security**, with practical experience in secure delivery pipelines, infrastructure administration, and centralized authentication. Combines hands-on implementation with threat analysis and technical documentation. Seeking an **end-of-studies cybersecurity internship from January 2027**. Interested in infrastructure protection, security verification, incident response, and cybersecurity research.

Education

Master's Degree in Cloud and Cybersecurity

2025–2027

Institut Supérieur des Études Technologiques (ISET), Sfax, Tunisia

Semester 3 specialization: Information Security — *in progress*

- **Systems and infrastructure:** Linux and Windows Server administration, advanced administration laboratories, network architecture and protocols, network services and monitoring, database administration and security, information systems security, and cloud fundamentals.
- **Current security coursework:** Web application and e-commerce security, wireless and cloud security, firewalls, intrusion detection systems (IDS), and cryptography.
- **Audit, risk, and supporting studies:** ISO/IEC 27001 and 27002 Lead Auditor/Lead Implementer preparation; ISO/IEC 27005 Lead Risk Manager preparation; IT and Internet law; introduction to applied research.

Bachelor's Degree in Applied Information Technology

2022–2025

Institut Supérieur des Études Technologiques (ISET), Sfax, Tunisia

- **Foundations:** Programming, algorithms, computer architecture, operating systems, databases, and computer networks.
- **Applied training:** Software engineering, web development, database design, system administration, network configuration, virtualization, containers, CI/CD automation, DevSecOps, and secure deployment.

Professional Experience

DevSecOps and Infrastructure Security Intern (PFE)

Jan–Jun 2025

Zitouna Bank — Banking sector

- **Secure delivery:** Designed a Jenkins CI/CD pipeline integrating automated quality gates, static and dynamic application security testing (SAST/DAST), software composition analysis (SCA), and container scanning.
- **Deployment and visibility:** Deployed containerized applications on Kubernetes with security considerations; implemented monitoring and alerting using Prometheus and Grafana.
- **Threat analysis:** Applied STRIDE threat modeling and documented mitigation strategies.

Network Administration Intern

Feb 2024

ERP Solutions Company

- Studied and configured VLAN segmentation and routing scenarios; gained practical exposure to firewall configuration and network security validation.

Web Systems Development Intern

Jul–Aug 2023

- Developed a full-stack web application covering requirements analysis, backend logic, data handling, implementation, and testing.

Selected Academic and Technical Projects

5 Network and System Administration Laboratories

Linux / Windows Server / VMware / VirtualBox

- Built virtualized infrastructure and integrated OpenLDAP/LDAPS with ownCloud for centralized authentication and file access.
- Configured network services, Graylog monitoring, and automated notifications using n8n and Postfix.

5 Blockchain-Based Cyber/Fraud Threat Detection

Architecture design

Python / FastAPI / Kafka / Hyperledger Fabric

- Designed a platform combining event ingestion, off-chain ML scoring, and a policy engine with PostgreSQL/MinIO evidence storage.
- Specified blockchain records for evidence hashes, decision metadata, and analyst approvals to support auditability.

4 Redis High Availability Infrastructure Lab

Vagrant / Ansible / Redis Sentinel

- Automated a master–replica–Sentinel environment; configured synchronization and monitoring, then validated replication and failover readiness with `redis-cli`.

Technical Skills

Systems & Networking	Linux (Ubuntu, Red Hat), Windows Server, Bash, service administration; TCP/IP, VLANs, routing, NAT, DNS, DHCP, firewalls, SSH, Samba/SMB.
Identity & Access	Active Directory, OpenLDAP, LDAPS, identity and access management (IAM), access control.
Security Assessment	Vulnerability assessment, STRIDE, secure CI/CD, audit trails; SonarQube, OWASP ZAP, Trivy, OWASP Dependency-Check.
Containers & Automation	Docker, Podman, Kubernetes, Jenkins, GitLab CI, GitHub Actions, Ansible, Vagrant, n8n; AWS and Azure fundamentals.
Monitoring & Services	Prometheus, Grafana, Graylog, Postfix, Apache/Nginx.
Development & Data	Python, FastAPI, JavaScript, React, REST APIs; PostgreSQL, MongoDB, Redis, Kafka, Elasticsearch, MinIO; Git and collaborative workflows.
Blockchain	Hyperledger Fabric, smart contract/chaincode concepts, immutable evidence hashing.

Certifications

Cisco — CCNA: Enterprise Networking, Security, and Automation; Cyber Threat Management.

Google — Foundations of Cybersecurity.

Languages

Arabic — Native

French — Fluent

English — IELTS 6.5

Additional Information

Activities: First Aid Certification — Tunisian Red Crescent; *How to Know Yourself* workshop — Debate Club (Edutest).

Professional strengths: Analytical thinking, technical documentation, teamwork, autonomy, and continuous learning.