

# MOETEZ AFIF

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## TECHNICAL SKILLS

**DevOps, Infrastructure:** Jenkins, Kubernetes, Github Actions, ArgoCD, Vault

**Design and Modeling Tools:** Design Patterns, UML, System Design, Distributed Systems and Databases, SDLC, Infrastructure as Code, Service Mesh, DevSecOps Practices, GitOps

**Programming and Script Languages:** Python, JavaScript, TypeScript, C++, Bash

**Cybersecurity:** SAST, DAST, Sonarqube, Secure Coding, Web Application Penetration Testing, Linux and Windows Security, Infrastructure Security, RBAC, ABAC and Role Binding

**Certifications:** Certified In Cybersecurity (ISC)<sup>2</sup> – May 2024

## PROFESSIONAL EXPERIENCE

### Cytailor, Tunis, Tunisia: DevSecOps Engineer

Sep 2024 – Present

- Architected, configured, and deployed **HashiCorp Consul** as a service mesh and service discovery solution, enhancing inter-service communication and observability within a **Kubernetes** cluster.
- Provided **consultation** and contributed to external projects by implementing **DevSecOps** practices tailored to client needs, ensuring seamless integration into existing workflows.
- Strengthened enterprise security posture and ensured high availability of **microservices** and applications through proactive monitoring, threat mitigation, and infrastructure optimization.
- Designed and implemented automated **CI/CD** pipelines with integrated security checks to streamline development processes and reduce deployment risks.

### Cytailor, Tunis, Tunisia: DevSecOps Engineer Intern

Feb 2024 – Aug 2024

- Streamlined **CI/CD pipelines** for multiple **microservices** by implementing a **GitOps** workflow using **ArgoCD**, **Git**, **Helm**, **Kubernetes**, and **Vault**, resulting in more efficient and secure automated deployments.
- Automated the **vulnerability evaluation** process by integrating **external (NIST, CISA)** and **internal factors (Security Measures, Security Requirements)** into CVSS scoring, enhancing **risk assessment** accuracy for both internal systems and **compliance**.
- Designed and deployed a **serverless architecture** on **AWS (Lambda, S3, RDS)**, automating the risk assessment process based on **CVSS scores**, reducing manual effort and improving scalability.
- Created real-time dashboards in **Grafana** to visualize vulnerability risk metrics for each microservice, enabling better **decision-making** through clear and actionable insights.

### Cytailor, Tunis, Tunisia: Junior Cybersecurity Consultant (Part-Time Job)

Sep 2023 – Feb 2024

- Contributed in consultation for an enterprise and implemented an **activity monitoring** system on Google Workspace.
- Utilized **CASB solution (GAT+)** to create a security policy for access control and data sharing.
- Developed an automated monitoring and alerting system, leveraging **Large Language Models (LLMs)** to inspect user events and detect **anomalies**.

### Cybersecurity Project (SIEM Implementation), Tunis, Tunisia: SIEM Implementation Specialist Specify Duration

- Implemented a **SIEM** system using **OpenSearch**, **Logstash**, and **Beats** to collect and aggregate security events from multiple sources, including **AWS CloudWatch**, **pfSense**, **Snort**, and **Kubernetes**.
- Created custom correlation rules within OpenSearch to identify and link suspicious activity across different data sources, optimizing detection of potential threats.
- Configured real-time **alerting** to notify the security team of high-priority incidents, enhancing the incident response capabilities.
- Integrated and fine-tuned **Snort** and **pfSense** logs for comprehensive monitoring, ensuring thorough coverage of network and security events.

## EDUCATION

### Telecommunications Engineering (ICT)

Sep 2021 - Sep 2024

Higher School of Communications of Tunis (SUP'COM)

**Relevant coursework:** Cybersecurity, Machine Learning, Networking

## Physics Pre-Engineering

Engineering Prep Institute of Monastir (IPEIM)

Sep 2019 - Sep 2021

19/860

**Relevant coursework:** Algebra, Physics, General Mechanics, Python, French, English

## ACADEMIC PROJECTS

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### Anomaly Behavior-Based Intrusion Detection System (IDS)

Fall 2023 – Spring 2024

Developed an IDS using the CICIDS 2017 dataset and machine learning models to detect network attacks.

- **Cleaned** and **preprocessed** the **CICIDS 2017 dataset**, ensuring data quality and feature extraction for optimal model performance.
- Implemented and tested multiple machine learning models, including **Random Forest**, **Convolutional Neural Networks (CNN)**, and **Decision Tree**.
- Conducted comparative analysis of models based on key performance metrics: **accuracy**, **precision**, recall, and **F1-score**.

## OTHER WORK EXPERIENCE

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### 6NLG(2SB) - SUP'COM, Tunis, Tunisia: Netskope Implementer Intern

Sep 2022 – Dec 2022

- Implementation of robust **cloud security** and data protection using Netskope's **Cloud Access Security Broker CASB**, **SWG**, and **ZTNA** solutions.