

🏢 Work Experience

On-call Systems & Network Administrator

📅 Sept. 2025 — Present

Shipit Morocco 📍 Remote

- Level-2 technical support for network connectivity incidents — switches, routers, **DHCP/DNS/VLAN** configurations
- Diagnosis and resolution of critical incidents on-call, ensuring compliance with service continuity **SLAs**
- Drafting and implementing escalation procedures for level-2 incident management
- Ticket management and incident tracking via ITSM tools

Linux DHCP DNS VLAN Switching Routing ITSM SLA

Network Engineer

📅 Sept. 2024 — Sept. 2025

Bouygues Telecom 📍 Lyon, France

- Automated data collection and qualification across **300+ sites** via APIs — operational efficiency improvement of **+90%**
- Cross-department project coordination, including exploration of AI solutions for operational optimisation
- End-to-end management of **4 major projects** with milestone compliance and stakeholder reporting
- Security analysis of **5G** infrastructure in accordance with **ANSSI** recommendations
- Contribution to compliance audits and security hardening initiatives

5G LTE 4G Wi-Fi FTTH IMS VoLTE DWDM GPS

ML Engineer & Project Manager

📅 Apr. 2024 — Aug. 2024

CogniScan (Start-up) 📍 Limoges, France

- Designed analysis tools and interactive data visualisation dashboards (**Python, Dash, Plotly**)
- Optimised convolutional neural networks (**CNN**) for anomaly detection on medical imaging
- Developed signal processing algorithms for biological signature extraction and noise reduction

Python PyTorch TensorFlow Matlab REST API Embedded

Network & Security Administrator

📅 Jun. 2023 — Aug. 2023

ETEX 📍 Avignon, France

- Deployed and administered a **Centreon** monitoring solution for a fleet of **1,200+ terminals** across Western Europe
- Successfully migrated a server infrastructure from **VMware to Hyper-V** with full monitoring integration
- Security hardening** of Linux servers following **CIS** benchmarks and **ANSSI** guidelines (SSH, firewall, patching)

Linux Docker Centreon Hyper-V Bash Python MySQL Firewall

🔗 Technical Projects

CloudOps Vault Lab — GCP Production

🌐 <https://github.com/Khalil-secure/cloudops-vault-lab>

2025

- Production-grade GCP infrastructure fully automated with Terraform
- Secret management with HashiCorp Vault(encryption, rotation)
- Private VPC network, least-privilege IAM, OS hardening, and centralised logging in a SIEM environment (SOC homelab)

GCP Terraform Vault IAM CI/CD VPC

🎓 Education

Electronics & Telecommunications Engineering

ENSIL-ENSCI

📅 2022 — 2025 · Limoges

Antennas, embedded programming, 5G/6G networks.

Project with **Ansys**: detection of isolation distances in microprocessors.

Preparatory Classes (CPGE)

ELBILIA-SUP

📅 2020 — 2022 · Casablanca

Mathematics & Physics track (MP)

🌟 Certifications

TryHackMe

Jr Penetration Tester Path
SOC Level 1 (certified)

Microsoft Azure Fundamentals

AZ-900

Root-Me

100+ challenges solved

⚙️ Skills

Languages

Python, Bash, Ruby, Go, C/C++, Rust

Security

Fail2ban, Suricata, IDS/IPS, MITRE ATT&CK, ELK, SSH hardening

DevOps

Docker, GitHub Actions, CI/CD, Git

Infra

Linux, Kubernetes, Centreon, Netdata, VMware, Hyper-V

Network

5G, FTTH, VoIP, MPLS, Firewall

Databases

MySQL, PostgreSQL

Methods

Agile, Scrum, Jira

🗣️ Languages

- English** — TOEIC 940/990
- French** — Fluent
- Arabic** — Native language

♥️ Interests

- Martial arts** — Black belt in Karate (Shodan), beginner BJJ
- Hackathons** — Lablab.ai, international teams
- CTF & challenges** — Root-Me, TryHackMe