

DERRADJI SENANI

Backend & DevOps Engineer | Python Developer

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PROFESSIONAL SUMMARY

Backend & DevOps Engineer with 1 year of professional experience — including a 4-month internship at Algérie Telecom — building production-grade backend systems and DevOps pipelines, backed by 3 years of Python development across automation, web scraping, and data workflows. Shipped 2 completed platforms (secrets management and infrastructure observability) with a third actively in development. Proficient in designing secure REST APIs, containerizing services with Docker, configuring Linux infrastructure, and building full observability stacks with Prometheus and Grafana. Holds certifications in Docker, cybersecurity, and IT automation. Capable of independently taking a service from architecture to deployment.

EXPERIENCE

Infrastructure & Networks Intern *Algérie Telecom Batna, Algeria* Jun 2025 – Sep 2025

- Gained hands-on exposure to enterprise network infrastructure, server administration, and telecom-grade systems in a real production environment.
- Worked alongside network engineers on Linux server configuration, IP addressing, DNS, and internal service routing.
- Observed and assisted with infrastructure monitoring, fault diagnosis, and hardware maintenance across Algérie Telecom's Batna facilities.
- Applied university-level networking knowledge (TCP/IP, VLANs, routing protocols) in a live enterprise context, bridging academic theory with operational practice.

Python & Devops Engineer *Freelance / Self-Initiated* | 2023 – Present

- Built and published Crypteria, an open-source Python encryption library (PyPI) implementing AES-256-GCM authenticated encryption with OS keyring integration and Google Drive cloud backup — used as a foundation for secrets handling in subsequent projects.
- Developed an Active Directory automation toolkit in PowerShell covering full user onboarding pipelines (CSV-driven user/group/OU creation, shared folder mapping) and a scheduled CPU/RAM resource monitor across AD computers.
- Built a web scraping portfolio spanning 8+ targets including Amazon, Jumia DZ, Facebook groups, population datasets, and AI-generated image sources — covering static pages, dynamic content, and authenticated sessions.
- Provisioned Linux VPS environments with Nginx reverse proxies, SSL termination, and automated deployment workflows, cutting manual deployment steps by over 60%.
- Built Prometheus + Grafana observability stacks with custom dashboards and alerting rules, enabling real-time health monitoring across all self-hosted services.
- Provisioned and managed Azure cloud resources (VM, Blob Storage, PostgreSQL, NSG, VNet, App Service) with basic Terraform configurations for infrastructure automation, applying IaC fundamentals in a practical cloud environment.

PROJECTS

VOA — Vault Ops API [↗](#)

Sep 2025 – Dec 2025

Technologies: *Python, FastAPI, Docker, PostgreSQL, Redis, Prometheus, Grafana*

- Built a multi-tenant secrets management platform with AES/GCM encryption at rest and automated key rotation on a configurable schedule, designed to replace manual environment variable management.
- Implemented JWT-based authentication with fine-grained RBAC, ensuring each tenant accesses only their own secret namespaces.
- Integrated Prometheus metrics and structured audit logging to provide a full trail of secret access and rotation events for compliance use cases.

NEXORAOPS — Network Observability Platform [↗](#)

Jan 2026 – Apr 2026

Technologies: *Python, FastAPI, Docker, PostgreSQL, InfluxDB, gRPC, React*

- Engineered a real-time infrastructure monitoring platform ingesting metrics from multiple agents via gRPC and storing time-series data in InfluxDB for efficient range queries.
- Designed a buffered metrics collection layer to handle burst ingestion without data loss, with configurable flush intervals and backpressure handling.
- Built a threshold-based and anomaly alerting engine exposed through a REST API, with WebSocket push notifications surfaced in a React dashboard for sub-second alert delivery.

LOGS ANALYZER — Log Management Platform [↗](#)

Mar 2026 – May 2026

Technologies: *Python, FastAPI, PostgreSQL, Docker, JWT, RabbitMQ, Redis*

- Architecting a multi-tenant SaaS log analysis platform with namespace isolation, per-tenant API key management, and configurable ingestion quotas to prevent abuse.
- Building an asynchronous log ingestion and validation pipeline using RabbitMQ for message queuing and Redis for caching parsed results, targeting high-throughput log volumes.
- Integrating Cloudflare R2 for cost-efficient long-term log storage with a retrieval API enabling full-text search over archived logs.

CERTIFICATIONS

Mastering Docker: Containers, Networking, and Orchestration

CodeSignal Jul 2025 [Verify ↗](#)

PowerShell: Automating IT Administration

LinkedIn Learning Apr 2025 [Verify ↗](#)

FCF — Cybersecurity

Fortinet Apr 2025 [Verify ↗](#)

TECHNICAL SKILLS

Backend: Python, FastAPI, Flask, REST APIs, WebSockets, JWT, OAuth 2.0, HTML, CSS, JavaScript

DevOps & Infrastructure: Docker, Docker Compose, Kubernetes, Linux, Nginx, GitHub Actions

Cloud & IaC: Azure (VM, Blob Storage, PostgreSQL, NSG, VNet, App Service), Terraform (basics)

Databases: PostgreSQL, MariaDB, SQLite, Redis, InfluxDB

Monitoring & Observability: Prometheus, Grafana, Structured Logging, Alerting Pipelines

Security: RBAC, Encryption, Rate Limiting, Audit Logging, Secrets Management, Cybersecurity Fundamentals

Networking: TCP/IP, DNS, HTTP/HTTPS, Reverse Proxying, Load Balancing, VLANs, AD

Scripting & Automation: Python Scripting, PowerShell, Bash

Testing: Pytest, Unit Testing, API Integration Testing, Postman, K6

PROFESSIONAL SKILLS

Version Control & Collaboration: Git & GitHub, Code Reviews, Branch Strategy

Project & Task Management: Jira, Agile Fundamentals

Data & Reporting: Power BI, Data Analysis, Data Cleaning, Basic Dashboard Design

Productivity Suite: Microsoft Word, Excel, PowerPoint

Core Competencies: Problem Solving , Self-directed Learning, Remote Collaboration, Time Management

EDUCATION

Master of Network and Telecommunication

Farhat Abbas Setif 1 | 2024 – 2026

Bachelor's of Telecommunication

Mustapha Ben Boulaid Batna 2, CUB | 2021 – 2024

LANGUAGES

English (B2 — Upper Intermediate) • **French** (A2 — Elementary) • **Arabic** (Native)