Mohamed Lakhdar

DevOps & Infrastructure Engineering Student

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Profile

Software engineering student at 1337 (42 Network) focused on infrastructure, containerization and network security. Hands-on experience deploying a private cloud with OpenStack and Ansible, building multi-service Docker infrastructures, and designing segmented, firewalled networks. Comfortable at the Linux command line and with low-level systems programming in C/C++. Looking for a DevOps internship to work on real CI/CD, automation and cloud environments.

Education

1337 Coding School — 42 Network Morocco
Software Engineering, peer-to-peer project-based curriculum *Present*

Technical Skills

Cloud & IaC	OpenStack, Ansible
Containers	Docker, Docker Compose, Docker networks & volumes
Systems	Linux (Debian), Bash, Make, NGINX, TLS, PHP-FPM, FTP, cAdvisor
Networking & Sec.	pfSense, GNS3, iptables / Netfilter, NAT, network segmentation (WAN/DMZ/LAN), Hack The Box
Databases	MariaDB, PostgreSQL, MongoDB, Redis, SQLite
Languages	C, C++, Go, Python, Java, JavaScript, x86 Assembly
Tools	Git, GitHub, FastAPI, Gin

Infrastructure & DevOps Projects

Private Cloud Deployment | *OpenStack, Ansible, Linux*
- Deployed a private IaaS cloud on OpenStack across multiple hosts.
- Wrote Ansible configuration for every host to make provisioning reproducible and consistent.

Inception — Containerized Web Infrastructure | *Docker Compose, NGINX, MariaDB, Redis* github.com/l4khd4r/Inception
- Built a production-like stack of 8 services, each in its own Debian Bookworm container built from scratch (no prebuilt images).
- Single TLS 1.2/1.3 entrypoint via NGINX in front of WordPress + PHP-FPM and MariaDB, on an isolated Docker network.
- Added Redis object cache, FTP server, Adminer, a static site and cAdvisor for container monitoring; persisted data with named volumes.

Segmented Firewall Lab | *pfSense, GNS3, Docker* github.com/thebeaarr/gns3-pfsense-firewall-lab
- Designed a 4-zone network (WAN, DMZ, Administration, Internal) routed through a pfSense firewall in GNS3.
- Simulated hosts and exposed services with Docker containers; implementing NAT and inter-zone firewall rules.

GuildChat — Chat Backend | *Go, Gin, PostgreSQL, MongoDB* github.com/l4khd4r/GuildChat
- REST API for a Discord-like app with JWT auth signed with RSA keys (RS256) and Argon2id password hashing.
- Auth middleware protecting user routes; planned NGINX reverse proxy in front of the service.

ft_irc — IRC Server | *C++98, sockets, poll()* github.com/thebeaarr/FT_IRC
- Single-threaded, event-driven IRC server using I/O multiplexing to handle many concurrent clients.

Also: Minishell (Bash-like shell in C), cub3D raycasting engine (C), Netfilter firewall scripts, Hack The Box machines, x86 assembly and cryptography exercises.

Hackathons & Activities

AMLD Africa 2026 × 1337AI Hackathon 2026
AI study assistant: Chrome extension + FastAPI backend, SQLite storage, optional Notion sync

Competitive Programming & Open Source
514 GitHub contributions in the past year; Codeforces practice in C

Languages

Arabic (native) · French (professional) · English (professional)