

# Abdelhakim Mhioul

Full Stack Engineer & DevOps — Team Lead

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Casablanca, Morocco



## PROFESSIONAL SUMMARY

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Full Stack Engineer & DevOps practitioner with 3+ years shipping production systems across AI/ML, distributed infrastructure, SaaS, mobile, and blockchain. Built platforms serving 70,000+ users. Owns the full lifecycle: product engineering, CI/CD, containerised deployments, Nginx/VPS infra, and incident response. Co-founded Vexonik, a distributed VPN/anti-censorship startup. Currently leading the engineering team at Marwa Folly Fashion. ENSIAS State Engineer — top engineering school in Morocco.

## TECHNICAL SKILLS

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<b>Programming</b>	TypeScript, JavaScript, Python, Dart (Flutter), Golang, PHP, SQL, Solidity, Bash
<b>Frontend</b>	React.js, Next.js, SvelteKit, TailwindCSS, React Native, Flutter, Expo
<b>Backend</b>	Node.js, Express, FastAPI, Django, Laravel, AdonisJS, Prisma, Drizzle ORM
<b>DevOps &amp; Infra</b>	Docker, Docker Compose, GitHub Actions, GitLab CI, Nginx (reverse proxy, TLS, SSE), Ansible, PM2, Coolify
<b>Cloud &amp; Networking</b>	VPS provisioning, SSH hardening, UFW/iptables, Let's Encrypt, DNS, VPN protocols (Xray/VLESS/VMess/Reality/uTLS)
<b>Queues &amp; Realtime</b>	BullMQ, Redis, Socket.IO, WebSockets, SSE, Push Notifications
<b>AI / ML</b>	TensorFlow (CNN), NLP pipelines, OpenAI API, Gemini API, Claude API, Open-Router
<b>Databases</b>	PostgreSQL, MongoDB, MySQL, Redis, SQLite — migrations, replication, backup
<b>Blockchain</b>	Solidity, Ethereum, Truffle, Web3.js
<b>Linux</b>	Arch, NixOS, Debian/Ubuntu — 6+ years daily driver, sysadmin, systemd, cron
<b>Spoken Languages</b>	Arabic (native), English (fluent), French (fluent), Spanish (intermediate)

## PROFESSIONAL EXPERIENCE

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### Team Lead

Marwa Folly Fashion

Jan 2026 – Present

- Lead engineering team of 3 delivering digital products for a fashion brand — e-commerce, internal tooling, and operations systems.
- Own technical roadmap, sprint planning, architecture decisions, code reviews, and delivery milestones.
- Stack: Next.js, Node.js, PostgreSQL, Docker — bridging business requirements and engineering execution.

### Co-Founder & CTO

Vexonik

Oct 2025 – Nov 2025

- Zero-to-one build: architected and shipped full product suite across 5 repos — web platform (SvelteKit + Drizzle ORM + PostgreSQL), REST API (Node.js + Prisma + Redis), desktop client (Electron), mobile app (React Native + Expo + Kotlin), and marketing website.
- Built internal business management platform: RBAC (5 roles), task/lead management, commission tracking, Jitsi video meetings, BullMQ job queues, real-time push notifications, and department messaging.
- Designed multi-node distributed VPN infrastructure (Xray Core, Reality, Vision, uTLS) for Great Firewall bypass; 99.9% uptime across geo-distributed Linux VPS clusters.
- CI/CD: GitHub Actions SSH deploy to VPS with PM2 + retry logic; Telegram deployment notifications. Automated node provisioning with Bash scripts (apt/CentOS).

### Full Stack Engineer

HrFlow.ai

Oct 2024 – Sep 2025

- Built multi-format **AI CV parsing system** (Python/TypeScript) — automated candidate data extraction at scale.

(Concurrent with freelance work below.)

- Developed **Recruiter Copilot** and **Talent Copilot**: AI-assisted ranking and matching tools for enterprise HR clients.
- Implemented talent pool management with automated candidate scoring; platform: 60,000+ listings, 72% bounce rate reduction, 60% YoY growth.
- Maintained GitHub Actions CI/CD pipelines; containerised AI workloads with Docker; managed PostgreSQL/Redis schema migrations under production load.
- On-call rotation: investigated production incidents, wrote post-mortems, enforced rollback policies.

### Freelance Full Stack & DevOps Engineer

Jan 2024 – Nov 2025

Self-employed

- **LeadSysGen** — AI lead generation SaaS: Docker Compose stack (app + worker + Nginx + PostgreSQL + Redis + BullMQ); GitHub Actions CI with live DB/Redis service containers; deploy pipeline (GHCR push → SSH VPS redeploy → health check → Telegram alert); Nginx SSE config; pre-launch security hardening review.
- **BataiLog** — 5PL logistics platform (Node.js + Prisma + PostgreSQL + Socket.IO); multi-service Docker stack; GitLab CI with zero-downtime deployments.
- **MarhabaVisit** — Visit management for SAHAM Assurances (Laravel + React.js + NX Monorepo); PostgreSQL + Redis with automated backup/restore.
- **Luxifia** — Print-on-demand marketplace (Django REST + React.js + NX Monorepo + Docker); Nginx + Let's Encrypt TLS; GitLab CI/CD.
- **BaliHani / Mosta9el** — Mobile apps (Flutter + FastAPI + MongoDB); containerised VPS deployments; GitHub Actions CI/CD with branch protection.
- Managed Debian/Ubuntu servers for 5+ concurrent client projects; hardened SSH, configured UFW/iptables, monitored uptime.

### Full Stack Engineer

Feb 2023 – Dec 2023

Terros

- **Week'in** — Building management super-app: 70,000+ users, 120 sites; KPI dashboards, real-time service requests via Socket.IO; deployed to Play Store + App Store.
- **Serenest by Vermaat** — Staff management for 5,000+ employees across France; automated billing for 850+ clients; Stripe + Mailjet + FlexAccess integrations.
- **Marcel By Hiptown** — Multi-site coworking platform for 28 locations; DocuSign contract signing, real-time booking.
- **Amis du Louvre** — Member portal with e-tickets, event booking, and Stripe payments.
- Published 4 mobile apps to Google Play Store and Apple App Store; managed API pipelines and environment parity (dev/staging/prod).

## INFRASTRUCTURE & DEVOPS HIGHLIGHTS

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### Production Docker + Nginx Multi-Tenant Stack

2024–2026

- Repeated pattern across 5+ projects: Docker Compose (app + worker + Nginx + PostgreSQL + Redis), Nginx SSE/WebSocket proxying, Let's Encrypt TLS automation.
- Blue/green-style zero-downtime deploys via GitLab CI webhooks or GitHub Actions SSH pipelines.

### GitHub Actions CI/CD with Real Service Dependencies

2024–2026

- CI pipelines spinning up live PostgreSQL 16 + Redis 7 service containers — no mocking, full integration coverage.
- Deploy stage: GHCR image build/push, VPS SSH redeploy with retry logic, post-deploy health check, Telegram notifications.

### Distributed VPN Infrastructure (Xray Core / Reality / uTLS)

2025

- Multi-region anti-censorship proxy cluster; obfuscated transport bypasses DPI at ISP and state level (Chinese GFW).
- Stack: Xray Core, Nginx, Certbot, systemd, Bash, Ansible, Marzban VPN panel API.

## NOTABLE PROJECTS

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### Energent AI — Real-Time Dual-LLM Voice Assistant

live

2025

- Google Gemini Live API + OpenAI Realtime API; low-latency audio via WebRTC + WebSockets. Stack: React + TypeScript.

### Supply Chain DApp — Ethereum Food Safety

live

2024

- Blockchain DApp for supply chain transparency; Solidity smart contracts + Next.js + Web3.js + Truffle.

**Islamic Mobile App — Quran, Prayer, Adhkar**

2025

- 10+ modules (Quran multi-Riwayat + audio, Prayer Times GPS, Adhkar/Dua, Anashid, Tassbih, offline mode); React Native + Expo + Django + PostgreSQL. Full RTL Arabic + i18n.

**Rotten Fruits Detector — CNN Computer Vision + Mobile***github*

2023

- CNN (TensorFlow/Jupyter) for rotten fruit detection; production mobile app built around the inference model.

**EDUCATION**

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**State Engineer Diploma — Web & Mobile Computing (IWIM)***ENSIAS, Rabat*

2018–2023

*Grande École d'Ingénieurs — Top engineering school in Morocco***CPGE (MP) — Classes Préparatoires aux Grandes Écoles***Lycée Mohamed V, Casablanca*

2016–2018