

Alalfy Mansour

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SUMMARY

Software engineer and sole technical owner of two live production Flask/PostgreSQL systems serving 3,500+ weekly visitors and 12,500+ customer records. Hands-on with Linux infrastructure, Docker, Kubernetes, Ansible IaC, and CI/CD — targeting Junior Backend or DevOps/SRE roles.

EXPERIENCE

Software Engineer — Sole Technical Owner

June 2025 – Present
Cairo, Egypt (Remote)

Dukana

- Architected and deployed two production Flask/PostgreSQL systems from scratch — a customer-facing e-commerce storefront and an internal ERP-style operations platform — sole engineer across backend, infrastructure, and database layers.
- Manage full Linux VPS infrastructure: Docker Compose orchestration, nginx reverse proxy, Certbot SSL with automated renewal, and GitHub Actions CI/CD across dev/staging/production environments.
- Designed a 35+ table relational schema spanning orders, inventory, finance, and analytics — with composite indexes, row-level locking, and connection pooling for production workloads.
- Built a granular RBAC system with 60+ per-employee permission flags, full audit trails via activity logs, and session tracking across all user actions.
- Platform serves 3,500+ weekly visitors and processes 1,000+ orders monthly, with 12,500+ customer records.

PROJECTS

Homelab — Production-like DevOps pipeline

- Provisioned a fully automated k3s cluster on a 2011 HP Compaq using Ansible IaC — idempotent playbooks enable full server rebuild.
- Self-hosted GitHub Actions runner with end-to-end CI/CD: Docker build → GHCR → `kubectl apply` → deployment logged in LabPulse (PostgreSQL-backed API).
- Prometheus + Grafana cluster observability via kube-prometheus-stack with configurable retention.
- Solved CGNAT (no static IP) via Cloudflare Tunnel: Internet → Cloudflare → Traefik → Pod.
- **Stack:** Linux (Debian) · Ansible · Kubernetes · Helm · Traefik · Prometheus · Grafana · GitHub Actions · Cloudflare Tunnel
- **Links:** [Article](#) · [Ansible](#) · [Live Demo](#) · [LabPulse](#)

DukanaStore | *Flask · SQLite · SQLAlchemy · Docker · nginx* | dukana.store

- Production Arabic e-commerce full storefront with WhatsApp-based checkout, product variant system, and session analytics.

DukanaSystem | *Flask · PostgreSQL · Alembic · SQLAlchemy · Docker · nginx* | system.dukana.store

- Internal operations platform powering the Dukana team's daily workflows.

TECHNICAL SKILLS

Infrastructure & DevOps: Linux · Kubernetes · Docker · Ansible · GitHub Actions · Helm · nginx · Traefik · Git/GitHub

Backend: Flask · PostgreSQL · SQLAlchemy · Alembic · REST APIs · Redis

Languages: Python · C++ · HTML/CSS · Bash · Go (familiar)

EDUCATION

B.Sc. Computer Science

Oct 2022 – Jun 2026 (Expected)

Future Academy

Cairo, Egypt

- Relevant coursework: Algorithms & Data Structures, Operating Systems, Networks, Software Engineering, AI & Machine Learning, Calculus, Linear Algebra