# Moustafa Aly

Full-Stack Software Engineer

hello@mouverse.com | +20 12 22731732 | Egypt

mouverse.com | github.com/mouverse | linkedin.com/in/mouverse

## PROFILE

Full-Stack Software Engineer experienced in building scalable web applications, SaaS platforms, e-commerce systems, and business automation solutions. Skilled in developing modern frontend applications, designing backend architectures, and building RESTful APIs and GraphQL services, with hands-on experience in cloud infrastructure, third-party integrations, and AI-powered solutions.

## SKILLS

**Languages:** JavaScript, TypeScript, Python

**Frontend:** React, Next.js, Tailwind CSS

**Backend:** Node.js, NestJS, Express, Django, FastAPI

**APIs:** REST, GraphQL

**Databases:** PostgreSQL, MySQL, MongoDB, Redis

**DevOps & Cloud:** Docker, Linux, Dokploy, GCP, Azure, Hetzner, Cloudflare

**Tools:** Git, GitHub, Prisma ORM

## PROFESSIONAL EXPERIENCE

### Full-Stack Software Engineer | Shamy Stores

04/2022 – Present

Alexandria, Egypt

- Migrated the store from Shopify to a custom full-stack platform serving 100K+ monthly users.
- Built an automated gift card delivery system that sends purchased cards to customers instantly via email and WhatsApp, handling around 2,000 orders per month and 50M+ EGP in sales over 4 years.
- Built a stock sync system integrated with Retail Pro (invoicing and products) to keep online inventory and prices aligned with in-store data.
- Built a custom reporting dashboard that gives full visibility into key business numbers.
- Built a custom membership management platform that handles membership cards for both branches and the website, cutting membership verification time by 70%+.
- Designed and maintain infrastructure of 30 services using Dokploy and Docker.

## PROJECTS

**PyroEdition**
*Next.js, React, TypeScript, Tailwind CSS, TanStack Query, Node.js, Zod, PostgreSQL, Redis, Docker, Turborepo, Dokploy*

- Built a full-stack jewelry e-commerce platform for the Egyptian market: custom backend and Next.js storefront with guest checkout and customer accounts.
- Built a complete admin dashboard for managing orders, products, and discounts, with a custom order board supporting shipping with tracking and cancel-and-restock.
- Developed a custom Kashier payment integration (card and wallet) with signed webhooks, capture/refund support, and server-side payment verification, plus an InstaPay checkout with receipt upload and file validation.
- Built a custom CMS that lets the merchant edit the storefront (hero, collections, lookbook, reviews) without code deploys.
- Implemented event-driven cache invalidation and page warming to keep the storefront fast.

**CremaPOS**
*Next.js, React, TypeScript, NestJS, Prisma, PostgreSQL, JWT/Google OAuth, Docker, Dokploy*

- Built a multi-tenant POS SaaS for cafés and restaurants, with a separate owner portal and branch till logins scoped to each location.
- Implemented order creation with VAT, stock deduction/restoration, and atomic per-branch order numbering inside database transactions.
- Built Starter/Pro plan enforcement with usage meters, timezone-aware reports, and 80mm thermal receipt printing.

**Navyx Logistics**
*Next.js, TypeScript, Tailwind CSS, React Leaflet, OpenRouter*

- Built a maritime logistics SaaS with route planning, live container tracking, and interactive maps.
- Integrated an AI assistant to answer shipping questions and guide logistics workflows.

**Fresh Cart**
*Next.js, TypeScript, Tailwind CSS, NextAuth.js, React Hook Form, Zod*

- Built a full-featured e-commerce app with product browsing, category filtering, cart, wishlist, checkout, and order management.
- Implemented secure authentication with NextAuth.js and type-safe forms with React Hook Form and Zod validation.

## EDUCATION

**Route Academy** 09/2025 – Expected 01/2027
*Full-Stack Web Development Diploma* Alexandria, Egypt

**Alexandria University** 2020 – 2024
*Bachelor's Degree in Physical Education* Alexandria, Egypt

## LANGUAGES

**Arabic:** Mother Tongue

**English:** B2