

MAHMOUD AMR ABDELFAHAT

Full Stack Developer — Next.js, React, TypeScript, Node.js, Supabase

Al Ahsa, Saudi Arabia • Egyptian • Transferable Saudi Iqama • Military Service: Exempted • Arabic (native), English (professional)

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PROFESSIONAL SUMMARY

Full stack developer with 3+ years building and shipping production web applications in Next.js, React, TypeScript, Node.js and Supabase (PostgreSQL). Delivered 10+ live systems — ERP, LMS, CRM, CMS, booking and e-commerce — most of them Arabic-first with complete right-to-left support. Currently on-site with a manufacturing client, delivering Alumizer, the ERP that runs an aluminium factory's daily operations, built and refined against real production feedback. Comfortable owning a feature end to end: requirements from the business, data model, API, interface, deployment and the support that follows. BSc in Artificial Intelligence (Data Security), IEEE-published co-author, CyberTalents world rank 248. Seeking a full-time role in Riyadh, Jeddah or the Eastern Province, on-site, hybrid or fully remote.

EXPERIENCE

Lead Full Stack Engineer

Fortune Code — Saudi Arabia & Egypt

Aug 2025 – Present

- Own architecture, code review and release quality across a 4-person engineering team (2 UI developers, 2 full-stack developers).
- Shipped production systems for Saudi and Egyptian clients across ERP, CRM, HR, e-learning, entertainment, real estate and e-commerce.
- Architect bilingual Arabic/English applications: RTL layouts, role-based access control, PostgreSQL row-level security, audit trails, payment workflows, analytics dashboards and CMS tooling.
- Work directly with business owners to convert their operations into requirements, data models and deployable systems.
- Run AI-assisted engineering workflows (Claude Code, Codex CLI) with personal ownership of security review and final quality.
- Handle deployment and operations on Vercel and Saudi VPS infrastructure, including domains, environments and transactional email.

Client engagement — Alumizer ERP

Alum Aman Aluminium Factory, Al Ahsa (on-site)

Apr 2026 – Present

- Delivering and operating Alumizer, the Arabic-first ERP the plant runs on: measurements, quotations, contracts, production follow-up, invoicing and reporting.
- The system processes approximately 100 quotations and 10 contracts per month in production.
- Embedded with factory staff and management on the floor: requirements, feedback and rollout all happen in the same building, so features ship against real operational use rather than assumptions.
- Built a custom SVG drawing studio, bill-of-materials generation and 1D/2D cutting optimisation; invoicing architected ZATCA-ready for Saudi e-invoicing compliance.

Freelance Web Developer

Saudi & Egyptian clients (Remote)

2022 – 2025

- Built and delivered responsive corporate, real-estate and e-commerce websites for paying clients while completing a degree in artificial intelligence and data security.
- Clients include Alum Aman (alumaman.com), Emaco Saudi (emaco.sa) and Nogoom Al Bayan.
- Delivered both custom builds and WordPress sites, handling design hand-off, content structure, hosting and post-launch support.
- Grew from single-page sites into full bilingual platforms — the work that became Fortune Code.

KEY PROJECTS

Alumizer — alumizer.com — Aluminium manufacturing ERP; lead architect and developer. Measurements, quotations,

contracts, production, invoicing and reporting, with a custom SVG drawing studio, BOM generation and 1D/2D cutting optimisation. About 100 quotations per month in production.

Malahi — malahi.com — Bilingual multi-branch entertainment and booking platform for activities, events and B2B reservations: CMS, Supabase (Auth, RLS, Edge Functions), email and payment integration, plus a device-aware cinematic experience built with Three.js, React Three Fiber, PixiJS, Rive and GSAP.

Sales Ninja Academy — salesninja.vercel.app — AI-powered sales training LMS with VAPI voice simulations, AI performance evaluation, subscriptions, a credit wallet and five-role access control. Next.js 16, React 19, Prisma, MySQL, NextAuth, Stripe and Cloudinary.

Fortune Code Platform — fortunecode.org — Agency operations system covering CRM, HR, finance, proposals, contracts, client and employee portals, support, CMS and analytics. Next.js, TypeScript, Supabase/PostgreSQL, PDF generation and email automation.

AIGORIZM — aigorizm.com — AI-driven life-safety and IoT platform: fire-alarm infrastructure, smart gateways, real-time monitoring and analytics.

Da3wa — da3waapp.com — Luxury digital invitation platform for weddings and events, built mobile-first around personalised guest experiences.

Madrastak — madrastak.online — Arabic school-activities platform for managing student activities and participation. Next.js and Supabase.

PracLink — pralink.com — Dental training platform connecting trainees with expert professionals and hands-on training programmes.

Wejhat Construction — wejhat.sa — Bilingual corporate site for a Saudi construction company with a full RTL Arabic/English experience.

Masaba — masaba.sa — Arabic-first site for a Jeddah real-estate developer: residential and commercial project showcases with inquiry flows.

Orient Gulf — orientgulf.com — Bilingual site for a Saudi elevators and escalators company, with a custom rich-text CMS for content management.

Al-Owair Law Firm — allowairlaw.com — Arabic site for a Saudi law firm: legal services, consultations and notarisation. Full portfolio: mahmoudamr.com

TECHNICAL SKILLS

Frontend: React, Next.js (App Router), TypeScript, JavaScript (ES6+), HTML5, CSS3, Vite, Tailwind CSS, Ant Design, shadcn/ui, responsive design, accessibility, RTL layouts, internationalisation (i18n, next-intl)

Backend & Databases: Node.js, Express, Next.js API routes, REST APIs, webhooks, Supabase (Authentication, Row-Level Security, SSR, Edge Functions), PostgreSQL, MySQL, SQLite, Prisma ORM, Drizzle ORM

Product Features: Stripe payment integration, transactional email (Resend, Nodemailer), PDF generation, Excel import/export (ExcelJS), rich-text CMS editing (TipTap), QR codes, dashboards and analytics (ECharts, Recharts), maps (Google Maps, Leaflet, MapLibre)

AI Integration: OpenAI API, Google Gemini API, VAPI voice agents, AI-assisted development (Claude Code, Codex CLI)

State Management & Forms: Zustand, TanStack Query, React Hook Form, Zod validation, Context API

Performance: Code splitting, lazy loading, image optimisation (sharp), smooth scrolling (Lenis), responsive fallbacks for low-end devices

Security: JWT, NextAuth, role-based access control, row-level security, audit logging, OWASP concepts

Creative Web: Three.js, React Three Fiber, GSAP, Framer Motion, WebGL, PixiJS, Rive, Spline

Tools & Platforms: Git, GitHub, Vercel, Cloudinary, WordPress

EDUCATION

BSc in Artificial Intelligence — Data Security 2021 – 2025
Faculty of Artificial Intelligence, Delta University for Science and Technology

PUBLICATIONS & ACHIEVEMENTS

- **IEEE Conference Paper:** "Remote Access Trojan (RAT) Attack: A Stealthy Cyber Threat Posing Severe Security Risks," ITC-Egypt 2024. DOI: 10.1109/ITC-Egypt61547.2024.10620482
- **CyberTalents:** World Rank 248, Web Security focus (cybertalents.com/members/Z4YT0N)