

Mahmoud Emad

Full-Stack Developer

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SUMMARY

Full-stack developer building production business systems with Next.js, TypeScript and Postgres. Shipped a multi-tenant HR and applicant-tracking platform spanning 85 tables and six role-based portals, and an Arabic RTL invoicing system that replaced a retailer's Excel workflow, migrating 8,500+ historical invoices with a fully reconciled match. Comfortable owning a feature end to end, from database schema and row-level security policies through to the rendered UI.

EXPERIENCE

PluginZ Solutions Nov 2024 - Present
Full-Stack Developer · Cairo, Egypt pluginz.co

- Started on WordPress builds and React interfaces; now own four [Ops360](#) modules end to end (HR, applicant tracking, staff outsourcing, service desk), from Postgres schema and RLS policies through to UI.

Ops360 HR & ATS platform · pluginzhr.vercel.app

- Built a multi-tenant platform serving six surfaces from one Next.js app: a public marketing site plus super-admin, HR-company, client-company, employee and candidate portals, across 64 routes and roughly 42,000 lines of TypeScript.
- Designed the access model with Postgres as the security boundary: a custom access token hook injects tenant, role and permission claims into the JWT, RLS policies on all 85 tables enforce isolation, and middleware handles route gating as a UX layer only.
- Implemented a public job board aggregating openings across every tenant, with faceted filtering, multi-currency salary display (EGP, SAR, AED, USD), streamed Suspense loading and per-listing JSON-LD JobPosting markup for Google Jobs eligibility.
- Built the no-account application pipeline end to end: server action, CV upload to object storage, IP rate limiting, consent capture, and recruiter-side review with stage tracking.
- Built an asynchronous document pipeline generating contract, offer and payslip PDFs from a pg_cron-driven job queue, plus a tenant-branded transactional email outbox delivered through Resend with credentials held in Vault.
- Added a view-as mode letting administrators inspect the product through any role's permissions without leaving their own session.
- Established the test and CI story: Vitest unit tests, live RPC and RLS contract tests, Playwright role smoke tests, and a GitHub Actions pipeline running lint, typecheck, tests and build on every pull request.

AkhshabZ invoicing & accounts system · akhshabz.vercel.app

- Delivered an Arabic right-to-left invoicing and accounts system for a wood retailer: cubic-metre pricing computed from dimensions, per-piece board sales, running customer balances, supplier ledgers, live stock with low-stock alerts, and profit reporting.
- Migrated 8,533 invoices, 21,448 line items and 1,061 customer accounts from legacy Excel files into Postgres with a fully reconciled match, and kept invoices soft-deleted to preserve the accounting record.
- Wrote atomic invoice RPCs, reporting views and owner/staff RLS roles, with account provisioning handled by an Edge Function.

Corporate site · pluginz.co

- Built and shipped the company's 30-page site solo, covering seven service verticals, a case-study portfolio, a six-module product section and a blog, with per-page SEO metadata and lead-capture forms feeding the sales pipeline.

Freelance Jan 2024 - Present
Web Developer

- Delivered responsive marketing sites and web applications for small businesses, including apostrophes-eg.com (WordPress).
- Translated Figma designs into component-driven React and Next.js interfaces.

Instructor • Menoufia, Egypt

- Taught HTML, CSS and JavaScript fundamentals to 50+ students and built interactive React exercises demonstrating real-world component patterns.

SELECTED PROJECTS

Byway LMSbyway-academy.vercel.app

Next.js • Supabase • Zod • React Hook Form • Recharts

- Course marketplace with separate instructor, student and platform-operations dashboards across 27 routes. Twelve RLS-protected tables where derived state is maintained entirely by Postgres triggers: recording lesson completion recomputes enrollment progress, and crossing 100 percent automatically issues a certificate. No authorization logic lives in the React layer.

Alpenglow Retreatalpenglow-retreat.vercel.app

React • Vite • TanStack Query • Styled Components • Supabase

- Public booking site and staff operations dashboard for a fifteen-cabin retreat sharing one database. Eleven Postgres functions handle dashboard aggregations, gap-filled sales series, enquiry-to-booking conversion in a single transaction, and check-in and check-out. The browser holds only an anonymous key; unauthenticated visitors can read published cabins and nothing else.

Moonlight Storemoonlight.vercel.app

React • Redux Toolkit • TanStack Query • Formik • Yup • REST API

- E-commerce client over a REST API: catalog browsing, search and filtering, cart and wishlist, JWT authentication, shipping address capture, cash-on-delivery and Stripe checkout sessions, and order history.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript (ES6+), SQL, HTML, CSS**Frontend:** React 19, Next.js (App Router, Server Components, Server Actions), React Router, Vite, Tailwind CSS v4, shadcn/ui, Styled Components, Framer Motion, Recharts**State & Data:** TanStack Query, TanStack Table, Redux Toolkit, Zustand, Context API, React Hook Form, Zod, Formik, Yup**Backend & Database:** PostgreSQL, Supabase (Auth, Storage, Edge Functions), Row Level Security, Postgres functions, triggers and views, pg_cron, REST APIs, Deno**Testing & Tooling:** Vitest, Playwright, ESLint, Prettier, GitHub Actions CI, Git, Vercel, WordPress**Practices:** Multi-tenant architecture, role-based access control, Arabic RTL and i18n, technical SEO (JSON-LD, dynamic sitemaps, Open Graph), accessibility fundamentals, data migration**EDUCATION**

B.Sc. Computer Science & Information, Menoufia University — GPA 3.4, graduation project A+

2019 - 2023

LANGUAGES

Arabic (native) • English (professional working proficiency)