

MARWAN HAWASH

AI Engineer · Full-Stack Developer
Cairo, Egypt | +20 120 688 8342 | Marwanmagdyhawash@gmail.com
github.com/Marwan1241 | linkedin.com/in/marwan-hawash-3aa96311a

PROFILE

Full-stack developer turned AI engineer. Ships production web applications on Next.js, Supabase and Shopify across dev, staging and production environments — including authentication, role-based access, payments and third-party REST integrations — and builds the multi-model agentic workflows that produce them. Engineers agent context to cut token spend, enforces quality through automated review, and runs scoping directly with clients while coordinating designers. Comfortably delivers 4–5 concurrent projects per month.

AI ENGINEERING & AGENTIC WORKFLOW

- **Multi-model orchestration.** Cursor as primary IDE with Claude Code in the terminal, routed by task complexity: Grok 4.5 and Composer 2.5 for light coding and code review; Opus 5 as advisor with Sonnet 5 as worker on standard builds; Opus 5 solo on complex logic; Fable 5 as architectural advisor on large projects. Model selection treated as a cost/quality decision.
- **Token & context optimisation.** Builds knowledge graphs of the codebase with Graphify so agents query structure instead of re-reading every source file — removing the largest source of repeated context cost on large repositories. Paired with LSP-aware navigation and persistent cross-session memory.
- **Agent tooling stack.** context7 MCP for live library documentation (eliminates hallucinated APIs); code-review and security-guidance for automated review and secure-by-default patterns; ralph-loop for autonomous iteration; remember for cross-session memory; code-simplifier, feature-dev, frontend-design, liquid-lsp, commit-commands and Supabase MCP across the pipeline.
- **UI consistency at scale.** Maintains Refero-style DESIGN.md specifications per project so agent-generated interfaces stay visually and structurally consistent across sessions and contributors.
- **Autonomous agents.** Used Devin AI end-to-end to build a Flutter application for a university project — scoping, task decomposition and review of agent output.
- **Continuous model evaluation.** Tracks new model and tooling releases as they ship and re-tunes the routing strategy, keeping the workflow at the current cost/capability frontier.

EXPERIENCE

Full-Stack Developer | GabeDesign

Cairo, Egypt · Remote | Oct 2024 – Present

- Ship end-to-end web applications for clients in e-commerce, architecture, travel and the NGO sector — 10+ projects delivered.
- **Architecture:** Next.js applications with serverless API routes on Vercel, backed by Supabase (PostgreSQL, storage, edge functions); custom Shopify builds for commerce clients.
- **Environments & releases:** run every project across three environments — development, staging and production — with branch preview deploys, stakeholder sign-off on staging, and monitored production releases with rollback.
- **Auth & user management:** Supabase Auth with JWT sessions and PostgreSQL row-level security; role-based access control and admin dashboards for user, permission and content management.
- **Payments & integrations:** Stripe, Paymob and Shopify checkout with webhook-driven order and payment state; consume third-party RESTful APIs for booking, CMS, shipping, marketing and analytics.
- **Takeovers:** inherit and stabilise existing codebases — measurable Lighthouse performance gains and reduced page load times through image optimisation, code splitting, caching strategy and removal of render-blocking assets.
- **Client-facing:** run scoping and requirement calls directly with stakeholders, translate business goals into technical specs, and coordinate designers and creative contributors through delivery.
- Operate an AI-assisted delivery pipeline (Cursor + Claude Code) that sustains 4–5 concurrent projects per month without quality loss.

Lead Web Developer | Baynoire

Cairo, Egypt · Hybrid | Oct 2025 – Present

- Own the full Shopify storefront for a clothing brand: Liquid theme development, release cadence, performance and continuous refinement of the browse-to-checkout experience.
- Validate every change on a staging theme before promotion, then run zero-downtime production releases scheduled around trading hours and campaigns.
- Integrate third-party REST APIs across payments, fulfilment, marketing automation and analytics.
- Built and operate the brand's internal creative-team PWA — project management, asset organisation, task tracking and brand calendar — on Next.js and Supabase with role-based access.
- **Stakeholder & team management:** run requirement and scoping sessions with brand stakeholders, convert campaign plans into release plans, and coordinate designers and content contributors — assigning, reviewing and unblocking work end to end.

Frontend Developer | Young Productions

Cairo, Egypt · Hybrid | Jun 2024 – Dec 2024

- Built performance-optimised marketing and product websites with REST API integrations, balancing design fidelity against load performance.

Web Development Instructor | GOMYCODE

Cairo, Egypt · On-site | Jan 2021 – Jul 2024

- Trained 200+ students in HTML, CSS, JavaScript, DOM manipulation and Git workflows; many went on to industry roles.
- Partnered with Egypt's Ministry of Communications to deliver Web Development, AI and IoT sessions in underserved areas.

INTERNAL PROGRESSIVE WEB APPS

Built and maintain multiple Progressive Web Apps used for internal company operations — creative-team project management, asset organisation, task tracking and brand calendars. Installable, responsive and offline-tolerant, built on Next.js and Supabase with role-based access control and audited user management. These are private internal deployments; **demos available on request only**.

TECHNICAL SKILLS

AI & Agents: Multi-model agent orchestration, context & prompt engineering, knowledge-graph retrieval (Graphify), token-cost optimisation, MCP servers, agent plugin configuration, automated code-review pipelines, Cursor, Claude Code, Devin AI

Languages: JavaScript, TypeScript, Python, Dart, HTML5, CSS3, Liquid, SQL

Frameworks: Next.js, React, Node.js, Flutter, Tailwind CSS, Shopify, PWA (service workers, offline caching, installable apps)

Backend & Data: Supabase, PostgreSQL, row-level security, serverless API routes, RESTful API design and integration, webhooks

Auth & Payments: Supabase Auth, JWT sessions, role-based access control, admin user management, Stripe, Paymob, Shopify checkout

Delivery: Dev / staging / production environments, Git branching, preview deploys, Vercel, CI/CD, monitored releases and rollback

Practice: Design systems (DESIGN.md specs), performance optimisation (Lighthouse, code splitting, caching), responsive UI, secure coding, client scoping, team coordination, Figma

SELECTED PROJECTS

Most repositories on github.com/Marwan1241 are private, as the majority of the work is client-owned. Code walkthroughs and architecture notes available on request.

- **Baynoire** — Shopify storefront and internal creative-ops PWA for a fashion brand. www.baynoire.com
- **Mimar Group** — Corporate platform for an art, design, engineering and marketing group. www.mimar-group.com
- **Gemini Africa** — Web platform for an entrepreneur support organisation. geminiafrica.com
- **The Nile Bennu** — Heritage Nile cruise site with rich media and booking flow. www.nilebennu.com
- **Tegwal Tours** — Bespoke travel experience site built for conversion. tegwaltours.com
- **R-Kain Agency** — Experiential marketing and brand activation agency site. r-kain.com
- **Habiba Sawaf** — Portfolio and e-commerce website. habibasawaf.com
- **Kwell Financial Strategies** — Site for a financial strategy consultancy. kwellservices.com
- **Al Mourad Luxury Cruises** — Boutique luxury Dahabiya experience site (GabeDesign).

EDUCATION

BSc Computer Science | Misr International University

Cairo, Egypt | Sep 2019 – Jan 2025