

Mahmoud Fathy

Frontend Software Engineer

Address: Alex , Egypt | **Phone:** +20 120 048 1281 | **Email:** mahmoudfathy.dev@gmail.com

LinkedIn: <https://www.linkedin.com/in/mahmoudfathy-frontend/> | **GitHub:** <https://github.com/mahmoudfathydev-hub>

Website: <https://ma7moud-fathy.vercel.app/>

Summary

Frontend Engineer specializing in React, Next.js, and TypeScript. Building scalable, high-performance web apps with responsive UIs, clean code, and strong focus on UX and state management. Open to remote work or relocation.

Work Experience

IGNATRO Labs | Frontend Software Engineer

Cairo , Egypt | Nov 2025 - Present

- Led frontend development for 4 complex production projects, delivering scalable UI systems and logic-intensive features.
- Increased performance of legacy web platforms by 23% through code refactoring, optimization, and improved rendering strategies.
- Engineered and maintained the company's official website, implementing GSAP-driven animations and 3D interactive components.

Kayan Finance & KPRICE | Independent Technical Auditor (Freelance)

March 2026

- Conducted black-box technical audit for two fintech platforms, identifying 15+ high-impact issues across authentication flows, pricing modules, financial wizards, and RTL (Arabic) layout rendering.
- Diagnosed validation flaws and edge-case logic errors affecting financial input accuracy; proposed schema-driven safeguards using Zod with TypeScript patterns to improve data integrity and prevent invalid submissions.
- Identified UX inconsistencies impacting conversion flow, including CTA redundancy, naming mismatches (Log in vs Sign in), broken demo booking, and chatbot interaction constraints (response locking, scoped prompts, multilingual behavior).
- Delivered structured engineering reports with reproducible steps, expected behavior definitions, and prioritized fixes covering dark/light mode responsiveness, Swiper RTL card inconsistencies, dynamic content sync, and modal layout defects.

Projects

GearGrid [Live Demo](#) (Next.js 16 | React 19 | Redux Toolkit | TypeScript | Supabase | Jest) March 2026

- Performance Optimization: Achieved a **97 Performance score** and **100 in SEO & Best Practices** (Lighthouse metrics) on a large-scale architecture of **27,000+ lines of code**, ensuring maximum speed and searchability.
- Architecture & Scale: Developed a massive automotive platform with **27,000+ lines of code** and **290+ TypeScript files**, maintaining a strict modular folder structure for scalability and clear separation of concerns.
- Advanced State Management: Engineered a complex state layer using Redux Toolkit (RTK) with EntityAdapter to normalize data for cars, sales, and analytics, ensuring high-performance UI updates even with large datasets.
- Comprehensive Testing Suite: **Achieved 85%+ code coverage** by implementing a multi-layered testing strategy across 27,000+ lines of code
- Unit Testing: Verified Redux Slices, Async Thunks, and complex business logic—like the Installment Calculator—to ensure **100% logic accuracy**
- UI/UX Testing: Automated tests to validate responsive behavior, theme persistence, and component interactions across the entire 290-file architecture
- Performance Optimization: Optimized the platform's core web vitals through memoization (useMemo/useCallback), image transformation via Cloudinary, and lazy-loading heavy dashboard components

RXFLOW [Live Demo](#) (Next.js, TypeScript, Supabase)

Jan 2026 - Feb 2026

- Built RxFlow, a high-performance electronic prescription system using Next.js, TypeScript, and Supabase with a clinical-grade UI for managing prescriptions and patient records.
- Implemented smart prescription editing, global drug search, patient history tracking, and A4-optimized PDF prescription generation.
- Designed a bilingual (Arabic RTL / English LTR) responsive interface with secure authentication and real-time data synchronization.
- Achieved early product validation with 3 doctors actively testing the system within the first month of release.

Elite Gym [Live Demo](#) (Next.js, Appwrite, Gemini API)

Sep 2025 - Oct 2025

- Developed Elite Gym, a SaaS-style gym management platform with trainee management, scheduling, and payments dashboard.
- Engineered real-time backend integration with Appwrite and role-based authentication for trainers and trainees.
- Integrated an AI fitness assistant with multilingual voice interaction using Gemini API and Web Speech API.
- Built a scalable Next.js App Router architecture with reusable components and responsive UI.

NovaTek [Live Demo](#) (Next.js 16 | React 19 | TypeScript | Tailwind CSS | GSAP)

Jun 2025 - Jul 2025

- Built a scalable product catalog with multi-dimensional filtering, search, and sorting for 99+ items.
- Developed Cart, Checkout, and Favorites with persistent localStorage and validated forms using React Hook Form + Zod.
- Improved performance (~30% faster) using memoization, lazy loading, and optimized images.
- Delivered a production-ready, interactive platform with modular architecture, SSR/CSR hybrid rendering, and animated UI.
- Engineered a high-performance electronics store with dynamic filtering, search, and a full-featured cart & checkout system.

Flame & Bun [Live Demo](#) (Next.js 16 | React 19 | TypeScript | Tailwind CSS | Redux Toolkit) Mar 2025 - Mar 2025

- Built a responsive e-commerce restaurant platform with 26+ burger varieties, cart, favorites, and user authentication.
- Designed smooth UI animations and toast notifications for modern, interactive UX.
- Enhanced performance and SEO for production-ready deployment.
- Applied modular component architecture and Redux state management for maintainability and scalability.

Skills

Frontend & UI: HTML, CSS, Sass, Tailwind CSS, Styled Components, GSAP, Framer Motion, Lucide React, Radix UI

JavaScript & Frameworks: JavaScript (ES6+), TypeScript, React.js, Next.js (App Router)

State & Data Management: Redux Toolkit, Context API, REST API integration, Axios / Fetch

Tools & Workflow: Git & GitHub, Postman, Figma (Dev Mode), Vercel deployment, Trello

Additional / Backend Basics: Node.js (basic), Express.js, Component Architecture, Modular & Clean Code

Soft Skills: Problem Solving, Collaboration & Teamwork, Adaptability, Communication, Attention to Detail, Time Management

Education

Damanhour University — Bachelor's Degree - University Level

Sep 2025 - Jul 2029

Open for Full-time Roles / Remote

Passionate about building scalable and high-performance web applications, fully focused on developing and mastering my skills in modern frontend technologies.

Languages

Arabic | English

Certifications / Learning

- **HTML Fundamentals – Satr Platform** (Saudi Federation for Cybersecurity, Programming & Drones)
- **CSS Essentials – Satr Platform** (Saudi Federation for Cybersecurity, Programming & Drones)
- **Continuous self-learning in React, Next.js, TypeScript, Tailwind CSS, GSAP via online resources**