

Mahmoud Ragab Khalifa

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SUMMARY

Innovative Lead Frontend Engineer with 2 years of experience architecting high-performance enterprise applications (ERPs) and dynamic e-commerce platforms. Specialized in the React ecosystem (Next.js, TypeScript, Zustand), with a strong focus on offline-first architectures, complex state management, and performance optimization. Proven ability to translate business requirements into scalable, user-centric technical solutions.

EDUCATION

Bachelor of Computer Engineering & Computer Science

High Institute of Engineering and Technology, Behira (Egypt)

GPA: 3.47/4 (A-) | Sep 2019 - June 2024

PROJECTS

Movie Night – Movie Discovery Application

[movie-night](#)

- Developed a movie discovery application using Next.js, TypeScript, Tailwind CSS, and Supabase.
- Implemented secure authentication with email/password credentials, Google OAuth, and protected routes.
- Built personalized watchlist and favorites features with persistent user-specific data management.
- Integrated the TMDb API to display movie information, dynamic movie details, and related recommendations.
- Improved search performance and user experience by implementing debounced real-time search functionality.
- Enhanced engagement through trailer viewing, interactive modals, pagination, and real-time feedback notifications.
- Leveraged Next.js Server Actions for secure data operations while maintaining performance and scalable application architecture.

Market – Modern E-Commerce Platform

[market](#)

- Developed a modern e-commerce application using Next.js, TypeScript, Tailwind CSS, and shadcn/ui.
- Built a fully responsive shopping experience optimized for mobile, tablet, and desktop devices.
- Implemented secure authentication using Firebase Authentication and Firebase Admin with protected user flows.
- Developed a scalable shopping cart system using Zustand for efficient client-side state management.
- Added multilingual support using next-intl to deliver a localized user experience.
- Implemented seamless dark and light theme switching using next-themes across the entire application.
- Created a modern user interface featuring reusable components, carousels, modals, and maintainable component architecture.

Pizza Station – Food Ordering Application

[pizza-station](#)

- Developed a food ordering application using Next.js, TypeScript, Prisma ORM, and Supabase with a scalable relational database architecture.
- Built an advanced cart system using Redux Toolkit with support for product variants, sizes, and extra toppings.
- Implemented secure authentication and protected routes using NextAuth.
- Developed a comprehensive admin dashboard for managing products, users, orders, and application content.
- Integrated Cloudinary for image uploads, Zod for form validation, and Server Actions with useActionState for form handling and server-side operations.
- Enhanced performance through caching strategies, cache revalidation, internationalization (i18n), dark/light mode support, and fully responsive design.

Homely – Location-Based Stays Booking Platform

[homely](#)

- Developed an Airbnb-inspired accommodation booking platform using Next.js, TypeScript, Supabase, and Mapbox.
- Built a fully responsive user experience with location-based property discovery and dynamic listing visualization.
- Integrated Mapbox, Leaflet, and Geolib to provide interactive maps, property markers, geographic navigation, and distance-based filtering.
- Implemented advanced search functionality with destination, date range, and guest count filtering using react-date-range.
- Developed real-time synchronization between search results, property listings, and map locations to enhance user navigation and discovery.

SCHOLARSHIP

Frontend & Cross-Platform Development Mar 2025

- Authentication (NextAuth.js, OAuth, Google Auth)
- AI Integration (OpenAI/GPT API)
- Firebase & Supabase
- Flutter, React Native, & Mobile UI/UX
- Webpack & PWA

TECHNICAL SKILLS

- **Core:** HTML5, CSS3 (SCSS), JavaScript (ES6+), TypeScript.
- **Frameworks:** React.js, Next.js.
- **State Management:** Zustand, Redux Toolkit, Context API.
- **Forms & Validation:** React Hook Form, Zod, Server Actions, useActionState.
- **Data & Network:** React Query (TanStack), Axios, RESTful APIs, SWR.
- **Authentication:** NextAuth.js, Firebase Authentication, Google OAuth.
- **Internationalization:** next-intl (i18n), RTL/LTR Support.
- **Styling:** Tailwind CSS, Bootstrap, Material UI (MUI), Shadcn UI.
- **Database & Backend Services:** Supabase, Prisma ORM, Firebase Firestore.
- **Tools:** Git/GitHub, Webpack, Vite, Postman, PWA.