

Mazen Emam

Software Engineer specializing in frontend development with 5 years of experience building scalable web applications that drive business results. I help companies enhance user experiences and operational efficiency through data-driven solutions, having contributed to platforms serving manufacturing, analytics, and recruitment sectors across MENA and Europe.

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WORK EXPERIENCE

Siren Analytics, Beirut, Lebanon— Software Engineer

June 2025 - Jan 2026

Data intelligence company providing digital transformation services to the public and private sectors across Lebanon and the Middle East.

- Engineered a multi-language translation system with React Query caching and bulk translation hooks, supporting the company's expansion into the European market.
- Secured application authentication by refactoring JWT expiry logic and eliminating race conditions in token refresh, preventing unauthorized access.
- Optimized application performance by integrating React Compiler and leading application-wide code splitting, reducing re-renders and improving bundle size.
- Led the development of the AI Chat module, restructuring the module for scalability, which streamlined user workflows and data integrity.
- Pioneered a real-time WebSocket notification system using SockJS/STOMP with throttled error handling, enabling live collaboration features.
- Eliminated a class of runtime errors by establishing a TypeScript enforcement pipeline with strict ESLint rules and a pre-push hook, catching type inconsistencies before code integration.

Garment IO, Giza, Egypt— Mid-Senior Frontend Engineer

May 2023 - June 2025

SaaS solution helping labor-intensive manufacturing companies enhance productivity through real-time production floor data collection.

- Architected internationalization (i18n) system enabling real-time language switching and accelerating the product's deployment to global markets.
- Engineered a migration from Create React App to Vite, modernizing core dependencies and streamlining the build process, which reduced production build time by 50% and improved local development speed by 5x.
- Pioneered the integration of TypeScript and established strict ESLint configurations across the codebase through an incremental migration strategy, establishing type safety for core utilities and enhancing long-term maintainability.
- Implemented Sentry performance monitoring and a business intelligence tool, which reduced issue resolution time and improved data-driven decision-making for operational workflows.
- Built a real-time QR code scanning and validation system accelerating accurate data capture on the factory floor and reducing manual entry errors.
- Eliminated performance bottlenecks and memory leaks by refactoring state management, parallelizing API calls with custom React hooks, and conducting comprehensive code reviews.

TECHNOLOGIES

Proficient

React.js ·
TypeScript · JavaScript ·
Redux/Redux Toolkit ·
React Query/TanStack Query ·
Material-UI · Vite · HTML ·
CSS · SASS · Bootstrap · Git

Familiar

Next.js · Node.js · Express ·
MongoDB · GraphQL ·
WebSocket/STOMP · MobX ·
Sentry · Jira · Jest · Vitest ·
React Testing Library · AWS ·
Docker · Webpack

Education

Udacity

[React Nanodegree](#)
Jul 2022 - Aug 2022

Free Code Camp

[JavaScript Algorithms And Data Structures](#)
Jun 2022 - Jul 2022

Information Technology Institute

[MEARN Track, 3 Months diploma](#)
Sep 2020 - Dec 2020

Alexandria University

BSc. in Management
Information Systems, Faculty of Commerce
Oct 2013 - Jul 2017

[AsgaTech](#), Giza, Egypt—Frontend Engineer

Nov 2022 - May 2023

Custom software development company with 19-year MENA presence and offices across Saudi Arabia, UAE, and Egypt.

- Architected a reusable component library with RTL support, establishing a consistent design system that reduced new feature development time by 50%.
- Engineered a complex multi-step form system using React Context, streamlining the user onboarding workflow and reducing backend server load.
- Accelerated app startup speed by 35% through image optimization, lazy loading, and efficient API integrations.
- Executed full application internationalization (i18n) with dynamic RTL switching, enabling product launch in Arabic and English markets.
- Elevated code quality and team efficiency by pair programming, which increased code standardization and reduced post-deployment bug reports.

LANGUAGES

Arabic Native
English Fluent

[Akwad](#), Alexandria, Egypt—Frontend Engineer

Oct 2021 - July 2022

Custom technology solutions and component library development company.

- Architected a reusable form and grid component framework, standardizing development and reducing page build time by 90%.
- Engineered a complex MasterDetail system for asset and order management, enabling critical business workflows.
- Led a full refactor of the core data grid infrastructure, unifying pagination and search to minimize bugs.
- Implemented a centralized error handling system with user toasts and admin logs, increasing resilience and debugging speed.
- Integrated internationalization (i18n) and a dual-calendar date picker to support global product localization.
- Mentored two junior developers, increasing team productivity and reducing post-deployment issues.

PROJECTS

[Trackstube](#) ([Github](#) - [Live](#)).

- Music streaming app with ad-free YouTube integration and social sharing features using GraphQL and Apollo Client..
- Technologies: JavaScript · React · Apollo Client · GraphQL · Material-UI

[Cart](#) ([Github](#) - [Live](#))

- E-commerce shopping cart application with robust state management using Redux Toolkit and TypeScript for type safety.
- Technologies: TypeScript · React · Redux Toolkit · React Router · Vite

[YelpCamp](#) ([Github](#) - [Live](#))

- Full-stack campground review platform with authentication, authorization, image upload, cluster mapping, and comprehensive security features.
- Technologies: JavaScript · Node.js · Express · MongoDB · Mongoose · Mapbox · Passport