

Mazen Emam

Mid-Senior Frontend Engineer with over 4 years of experience architecting and delivering high-performance web applications. Specializing in React, TypeScript, and modern frontend ecosystems. Proven ability to lead frontend development, drive scalable solutions, and optimize system performance in SaaS and enterprise environments. Strong focus on code quality, maintainability, and developer experience.

WORK EXPERIENCE

Siren Analytics, Beirut, Lebanon— *Software Engineer*

June 2025 - Present

- Architected enterprise-level quality infrastructure with TypeScript strict mode migration, SonarQube integration, and pre-push validation pipelines, preventing production issues
- Implemented React Compiler performance architecture delivering measurable application-wide improvements through systematic component optimization and strategic memoization patterns
- Engineered WebSocket real-time infrastructure with protocol-level error handling expertise, ensuring reliable live monitoring for mission-critical European fact-checking operations
- Led technical risk mitigation by proactively identifying authentication race conditions during code reviews and diagnosing systemic backend CORS infrastructure issues
- Established scalable development patterns through centralized routing architecture, state management migration from Redux to React Query, and reusable component systems, improving team velocity

Garment IQ, Giza, Egypt— *Mid-Senior Frontend Engineer*

May 2023 - June 2025

- Led front-end strategy and performance optimization efforts, driving a 50% reduction in build times and significantly improving developer experience by transitioning from Webpack to Vite.
- Owned the frontend architecture, spearheading the incremental migration from JavaScript to TypeScript to enhance maintainability, scalability, and long-term stability.
- Designed and implemented a robust data visualization system by integrating Metabase and Syncfusion, providing factory managers with real-time production insights that improved decision-making. Redefined access control and security policies by revamping the Permissions Page, reducing authorization-related issues, and enhancing system integrity.
- Championed monitoring and reliability improvements, introducing Sentry for proactive error tracking, leading to faster issue resolution and a more stable production environment.
- Mentored junior engineers and conducted code reviews, raising the overall code quality and ensuring best practices in front-end development.
- Collaborated with cross-functional teams (backend, product, and business stakeholders) to align frontend initiatives with company objectives, ensuring a seamless product experience for thousands of users.

Alexandria, Egypt

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[Github/mazenemam19](https://github.com/mazenemam19)

[Medium/mazenemam19](https://medium.com/mazenemam19)

[Portfolio/mazenemam19](#)

TECHNOLOGIES

Proficient

HTML, CSS, SASS, Bootstrap, JavaScript, TypeScript, React, Redux/Redux Toolkit, MobX, Material-UI, Git

Familiar

Next.js, Firebase, MongoDB, REST, GraphQL, Node.js, Express, Docker, Vitest, Jest, React Testing Library (RTL), Vite, Webpack, Jira

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

References upon request!

LANGUAGES

Arabic Native
English Fluent

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

Nov 2022 - May 2023

- Built reusable component libraries, reducing development time by 50%.
- Implemented image optimization and lazy loading techniques, cutting app load times by 35%.
- Enhanced global state management with MobX, reducing backend requests and improving app responsiveness.

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

Oct 2021 - July 2022

- Developed a component library that reduced page development time by 90%.
- Standardized API response handling, reducing API-related bugs, and improving system stability.
- Mentored junior developers, increasing team efficiency and code quality.

PROJECTS

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

- Designed and developed a modern music streaming and sharing platform.
- Implemented a responsive UI and integrated GraphQL for efficient data fetching.

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

- Built an e-commerce application with robust state management using Redux Toolkit.
- Optimized API calls and ensured type safety with TypeScript.

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

- Developed a full-stack application for users to explore and review campgrounds.
- Implemented authentication, authorization, and scalable backend services using Node.js and MongoDB.

References upon request!