

Salah Mohsen

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SUMMARY

Senior Frontend Engineer specializing in React, TypeScript, and Next.js, with a proven track record of delivering production-grade platforms. Skilled in architectural design, SSR optimization, schema-driven forms, and building reusable component systems. Leverages AI effectively through strict engineering rules and documented patterns to standardize system design, reusable components, and consistent data and form workflows. Establishes architectural guardrails that keep development predictable, scalable, and maintainable as products evolve.

EXPERIENCE

Ment'ech, Senior Frontend Engineer

Jun 2025 - Present

- Architected scalable Next.js App Router platforms supporting operational dashboards, transportation logistics systems, and automotive marketplace applications.
- Standardized frontend architecture patterns and engineering rules used across the team to ensure consistent feature development.
- Built reusable schema-driven form systems using TanStack Form + Zod for complex operational workflows reducing duplicated validation logic and improving form consistency across applications.
- Implemented typed REST data layers with TanStack Query, SSR prefetch, hydration patterns, and mutation-driven cache invalidation.
- Engineered secure RBAC authentication systems with encrypted session cookies, middleware token refresh, and permission-gated UI.
- Engineered reusable admin data table systems using TanStack Table with URL-synced filtering, pagination, and search.
- Delivered bilingual English/Arabic interfaces with full RTL support using next-intl.
- Implemented production observability and error monitoring using Sentry.

IKNOWLY, Frontend Engineer

Nov 2024 - Jun 2025

- Rebuilt the application UI from Figma designs, delivering a modernized and consistent user interface.
- Implemented new product features using React with Zustand, Formik, and React Query.
- Built responsive UI components with Material UI and Tailwind CSS.
- Collaborated closely with backend engineers to streamline API integration and improve data flow.

SeenaPay, Frontend Engineer

Sep 2024 - Nov 2024

- Developed a modern operations dashboard using Next.js.
- Improved frontend performance by reducing bundle size and optimizing data fetching, resulting in faster page load times.
- Implemented responsive and accessible UI patterns to ensure cross-device usability.

One Solution, Frontend Engineer

May 2024 - Sep 2024

- Developed responsive web interfaces using React and Next.js.
- Improved application performance and codebase maintainability through component refactoring.
- Delivered scalable frontend solutions aligned with client requirements.

PROJECTS

Edge innovation center Dashboard - RAYA

Summary: Built a production admin platform for Edge Innovation Center, a Cairo workspace business (1800+ m²) spanning offices, meeting rooms, training rooms, boardroom, and event hall operations across multiple sites.

Tech Stack: TypeScript • Next.js • React • Zustand • Tailwind CSS • Shadcn/UI • Framer Motion • Tanstack Query • Axios • nuqs • Tanstack Form • Tanstack Table • Zod • Tiptap • date-fns • firebase • jose • nuqs • recharts • next-intl • Sentry • Eslint

- Engineered a platform-style Next.js App Router architecture with thin route pages and feature-private modules, keeping booking, space, finance, procurement, and admin domains composable and maintainable.
- Standardized the data layer with TanStack Query (queryOptions/mutationOptions), SSR prefetch + HydrationBoundary, and mutation-driven cache invalidation to keep server/client state consistent.
- Built a reusable form system using TanStack Form (useAppForm, withForm) + Zod schemas + dynamic section loading for complex operational workflows (spaces, pricing, bookings, roles, settings).
- Implemented production-grade security/reliability: JOSE-encrypted sessions, middleware token refresh, route-level permission enforcement, centralized Axios fetch/error normalization, and Sentry instrumentation across client/server/edge.
- Created and maintained a Cursor rules layer (.cursor/rules) that codified feature/query/form/table patterns, reducing implementation ambiguity and accelerating onboarding, PR consistency, and delivery flow.

Alouf Transportation Admin Dashboard

Tech Stack: Next.js 15 (App Router), React 19, TypeScript (strict), Tailwind CSS v4, shadcn/ui, Radix UI, TanStack Query, TanStack Form, TanStack Table, Zustand, nuqs, Axios, Zod, next-intl, Jest, Husky

Summary: Multi-tenant transportation operations platform for internal admin/ops teams to manage drivers, vehicles, routes, trips, tenant requests, and service workflows.

- Engineered a Next.js App Router operations platform for transportation workflows (drivers, vehicles, routes, trips, requests, tenants) with React 19 + strict TypeScript for maintainable feature delivery.
- Standardized a typed REST data layer with centralized endpoint contracts and a custom Axios fetcher that injects auth, locale, timezone, file-upload handling, and normalized API/server error messages.
- Codified secure auth + RBAC with encrypted session cookies, middleware-based token/session refresh and route redirects, explicit route-to-permission mapping, and permission-gated UI actions/components.
- Composed schema-first forms using TanStack Form + Zod + reusable field primitives; mapped backend validation errors back into field states and shipped multi-step create/edit flows for core operations.
- Built a reusable table system with TanStack Table + URL-synced state (nuqs) for pagination/filter/sort/search, with consistent loading/error/empty states and reusable create/export/import topbar actions.
- Implemented bilingual i18n/RTL architecture (English/Arabic typed messages, direction/font switching) plus SSR prefetch/dehydrate hydration patterns and lazy-loaded heavy client tooling/components for leaner runtime behavior.

RealDeal (Client + Vendor Web Platforms)

Tech Stack: Next.js (App Router), React, TypeScript, HeroUI, Tailwind CSS, TanStack Query, TanStack Form, TanStack Table, Zustand, Zod, next-intl, nuqs, Axios, JOSE (JWT), Firebase

Summary: Automotive marketplace platform for Egypt connecting verified dealers, car buyers, and financing partners across discovery, comparison, lead/payment, and dealer operations workflows.

- Standardized frontend architecture across client/vendor apps by enforcing independent module boundaries in ESLint and codifying team rules in .cursor playbooks, which made layering constraints executable instead of tribal knowledge.
- Engineered a typed REST data layer (queryOptions + shared fetcher) with SSR prefetch/dehydrate patterns for marketplace/comparison pages, improving first-render data availability and reducing client-side fetch waterfalls.
- Built schema-first, multi-step operations forms (TanStack Form + Zod) for dealer employee create/update flows, including server validation mapping to field errors and explicit success/failure UX states.
- Hardened authentication and authorization with encrypted JWT session cookies, proactive token refresh, middleware route protection, and permission-gated UI/navigation for dealer dashboards.
- Implemented bilingual en/ar localization with typed message contracts, locale-cookie resolution, dir switching (ltr/rtl), and RTL-aware component styling patterns across tables/forms/navigation.
- Applied practical performance/release tactics via dynamic imports (map/chart/modal), batched image preloading, Next.js cache/image optimizations.

SKILLS

Core Technologies

React, Next.js, Tanstack Start, TypeScript, JavaScript, HTML, CSS

Architecture

SSR, App Router, REST APIs, RBAC, Internationalization (i18n)

State & Data

TanStack Query, Tanstack Table, Zustand, Redux, SWR, Axios, Drizzle ORM

Authentication

Jose, Better Auth, Lucia Auth

UI & Styling

Tailwind CSS, Shadcn/UI, Material UI, Radix UI, Base UI

Forms & Validation

Tanstack Form,, React Hook Form, Formik, Zod, ArkType

Development Tools

Git, Jira, Linear, Figma, Photoshop

Other

Agile, System design, Performance optimization.

CERTIFICATIONS

Next.js 14 & React - The Complete Guide

Udemy • Issued May 2024

UX Design Foundations

Google • Issued Jan 2024

Ultimate React Course

Udemy • Issued Nov 2023

Python Data Structures

University of Michigan • Issued Apr 2023

Responsive Web Design

freeCodeCamp • Issued Aug 2021

JavaScript Algorithms and Data Structures

freeCodeCamp • Issued Sep 2021

EDUCATION

Mansoura University

BSc in Sociology • 2017 - 2022

CILAS

Diploma in Liberal Arts • 2021 - 2022