

Mohammad Omar

Frontend Engineer | React, TypeScript & Scalable Architecture

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PROFESSIONAL SUMMARY

Frontend Engineer specializing in React and TypeScript architecture for complex, data-intensive products. Built the frontend foundation of IntelliPharma, a bilingual pharmaceutical ERP/CRM spanning 1,100+ source files, 21 domain entities, 60 feature slices, and 67 route-level pages, as the sole frontend engineer on a five-person team. Strong in Feature-Sliced Design, typed API boundaries, TanStack Query data orchestration, role-based access control, resilient session management, real-time workflows, and performance-focused UI delivery. Comfortable owning a project end-to-end - from requirements and architecture through critical code review, debugging, optimization, validation, and production delivery.

TECHNICAL SKILLS

Core: TypeScript, JavaScript, React.js, Next.js, HTML5, CSS3

Architecture: Feature-Sliced Design (FSD), React Router, component architecture, compound components, design systems, role-based access control (RBAC)

Data & State: TanStack Query, Redux Toolkit, Axios, REST APIs, WebSockets, Firebase Cloud Messaging (FCM), Laravel Echo/Reverb, Suspense, infinite queries

UI & Forms: Tailwind CSS, shadcn/ui, React Hook Form, i18next, next-intl, responsive design, Arabic/English RTL

Visualization & Interaction: Recharts, React Leaflet, OpenStreetMap, barcode scanning, Motion

Quality & Delivery: Vite, Git, GitHub, Postman, Swagger, ESLint, Prettier, lazy loading, code splitting, error boundaries, accessibility, Vercel

EXPERIENCE

IntelliPharma | AI-Driven Pharmaceutical ERP/CRM

Graduation Project | Team of 5 | November 2025 - August 2026

React.js, TypeScript, Vite, React Router, TanStack Query, Redux Toolkit, Axios, Tailwind CSS, shadcn/ui, Laravel | [Live demo: intelli-pharma.limebyte.org](https://intelli-pharma.limebyte.org)

- Architected a strict Feature-Sliced Design codebase across app, pages, features, entities, shared, and widgets layers, keeping dependency direction explicit across 1,100+ source files.
- Designed a two-layer data architecture: a typed Axios apiClient with interceptor-normalized ApiResponse<T> and localized ApiError handling, plus reusable TanStack Query hooks for Suspense reads, infinite lists, and CRUD mutations with domain query keys, language-aware caching, and centralized side effects, powering data fetching across all 60 feature slices.
- Implemented backend-authoritative RBAC from session state through permission parsing, protected routes and direct URLs, permission-aware navigation, and capability-driven UI that fails closed when access is missing, securing all 67 route-level pages.
- Integrated and validated a real-time field-team tracking client over authenticated Laravel Reverb channels, reconciling an initial REST snapshot with timestamped WebSocket events in a normalized external store; coalesced bursts and modeled stale-data and connection states.
- Engineered a reliable push-notification lifecycle with backend-confirmed, user-scoped token fingerprints, cross-tab locking, bounded retry and recovery, idempotent message handling, and service-worker delivery synchronized with Redux and TanStack Query state.
- Engineered cross-tab authentication as a concurrency system - serialized rotating refresh-token exchanges with Web Locks and coalesced simultaneous in-tab refreshes through promise sharing.
- Propagated login, refresh, and logout across tabs via BroadcastChannel, keeping Redux session state consistent and preventing refresh races or false session expiry.
- Built the UI layer of an in-app AI assistant: a chat interface with persisted, searchable conversation history and session retrieval, consuming backend-proxied Gemini API responses with no model credentials exposed client-side.

Sniper Games | Session Management PWA

Freelance Product Developer | July 2026 - August 2026

React 19, TypeScript, Vite, Tailwind CSS, Jotai, Motion, Radix UI, PWA/Service Workers

- Delivered an offline-first Arabic RTL application for managing timed and open-ended PC and PlayStation sessions, with fully configurable stations and pricing, live cost calculation, warnings, summaries, and automatic timeout finalization.
- Replaced the client's manual, MS Word-based session tracking with the app - currently running up to 8 PC and 2 PlayStation stations in continuous daily use since launch.
- Owned the project end-to-end for the customer - requirements, product and architecture decisions, UI iteration shaped by live client feedback, debugging, performance optimization, and delivery.

ADDITIONAL PROJECTS

Ouzoun | Dental Workflow Management Platform

Collaborative Project | Team of 5

Next.js, TypeScript, ASP.NET, Firebase | [Live demo: ouzoun.vercel.app](https://ouzoun.vercel.app)

- Built an administration platform for dental operations, tools, implants, assistants, and analytics, integrating an ASP.NET backend with two Flutter mobile applications.
- Implemented real-time notifications, role-based administration, and interactive analytics dashboards to support connected clinic workflows.

Stacked | Interactive Grid Puzzle Solver

React, TypeScript, Redux Toolkit, Tailwind CSS, Framer Motion | [Live demo: stacked-game.vercel.app](https://stacked-game.vercel.app)

- Implemented DFS, BFS, A*, and uniform-cost search with animated path visualization, predictable state transitions, and responsive interaction across screen sizes.

EDUCATION

Information Technology Engineering | Software Engineering Specialization

Damascus University | Coursework and final exams complete - degree conferral expected Spring 2027

TRAINING & CERTIFICATION

Frontend Development Track | Prokaders

Certificate - awarded for delivering a capstone project to written specification | 16-hour training track

LANGUAGES

Arabic: Native | English: Fluent