

# AHMED ELSAMMAN

## Frontend Engineer | Angular | React | TypeScript

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## PROFESSIONAL SUMMARY

Frontend Engineer with 3 years of experience building enterprise web applications, industrial monitoring interfaces, and responsive digital products. Specialized in Angular, TypeScript, React, RxJS, Angular Signals, NgRx, Nx monorepos, SSR, real-time features, REST API integration, reusable component architecture, RBAC, and web performance optimization. Experienced in delivering maintainable, accessible, bilingual Arabic/English interfaces and collaborating with backend, UX/UI, QA, and business stakeholders in Agile environments.

## PROFESSIONAL EXPERIENCE

### Frontend Engineer | Medica Scope Hybrid / Cairo | Feb 2026 - Present

- Build enterprise LMS applications with Angular in an Nx monorepo, including SSR-enabled multi-application and multi-tenant workflows.
- Develop configuration-driven CRUD modules, dynamic forms, reusable data tables, and shared UI libraries for consistent delivery across products.
- Implement real-time features with SignalR, RxJS, and Angular Signals alongside JWT authentication, RBAC, and route protection.
- Deliver bilingual Arabic/English interfaces with RTL support, responsive layouts, accessibility considerations, caching, lazy loading, HTTP interceptors, and REST API integrations.
- Contribute to maintainable frontend architecture, code reviews, troubleshooting, and cross-functional delivery with backend and business stakeholders.

### Frontend Developer - Part-time | ESquare Remote | Jul 2026 - Present

- Develop Angular applications for factories that monitor and control machines and production lines through connected sensors and industrial IoT systems.
- Translate industrial operations and sensor data into clear dashboards, status views, alerts, and operator-focused workflows.
- Build reusable, responsive UI components and integrate frontend screens with industrial data services and control workflows.

### Frontend Developer | Ayen Remote / Riyadh | Nov 2024 - Feb 2026

- Built modular Angular applications using reusable components, responsive layouts, and scalable frontend architecture.
- Integrated REST APIs and improved application delivery through lazy loading, code splitting, image optimization, and consistent code-quality tooling.
- Collaborated with backend and UX teams in Agile sprints, contributed to code reviews, and aligned frontend implementation with UI/UX requirements and engineering standards.

### Teaching Assistant | Information Technology Institute (ITI) Qena | Nov 2024 - Feb 2026

- Delivered technical sessions on Angular, React, TypeScript, JavaScript, component architecture, and API integration for MEARN Stack trainees.
- Mentored trainees through hands-on projects, code reviews, Git workflows, debugging, and maintainable frontend practices.

### Odoo Developer | Sys Gate | Cairo | Sep 2023 - May 2024

- Extended and maintained ERP modules using Python, Odoo Framework, and PostgreSQL for business-specific workflows.
- Refactored legacy object-oriented modules and collaborated with cross-functional teams to deliver customized ERP solutions.

## SELECTED PROJECTS

### Rwaq LMS Platform | Angular | Nx | SSR | SignalR | RBAC

Enterprise learning platform supporting multi-tenant products, secure role-based experiences, bilingual interfaces, and real-time workflows.

- Built reusable configuration-driven CRUD modules, dynamic forms, advanced tables, multi-step workflows, and shared feature libraries.
- Applied Angular Signals, RxJS, standalone components, functional guards, lazy loading, and SSR-aware patterns within an Nx monorepo.
- Implemented maintainable, responsive interfaces and real-time workflows for role-based enterprise users.

### Ehsebha - Smart Driver Operating System | React | TypeScript | PWA | NestJS | Prisma | PostgreSQL

Arabic-first analytics platform helping ride-share and delivery drivers understand real profit, expenses, vehicle health, and next best actions.

- Developed a mobile-first installable PWA with Arabic RTL and English LTR support, offline-tolerant behavior, lazy-loaded routes, persisted API cache, and responsive analytics.
- Implemented trip, expense, fuel, maintenance, goals, score, recommendations, and multi-window analytics experiences with reusable frontend patterns.

### 3D Otaku | Angular | .NET | Three.js | 3D Model Viewer

Anime-focused 3D-print commerce experience with interactive product discovery, custom-order flows, and browser-based 3D previews.

- Built a responsive Angular storefront with product categories, product details, authentication entry points, and custom 3D order journeys.
- Integrated interactive 3D inspection using Three.js and Model Viewer with support for GLB, GLTF, STL, OBJ, and PLY assets.

## TECHNICAL SKILLS

**Core Frontend:** Angular, React.js, TypeScript, JavaScript (ES6+), HTML5, CSS3, SASS/SCSS

**Frontend Architecture:** Angular Signals, RxJS, NgRx, Standalone Components, Functional Guards, Nx Monorepo, SSR, Lazy Loading, Reusable Component Libraries, Clean Architecture, SOLID

**UI, UX & Web Quality:** Responsive Design, UI/UX Implementation, Accessibility, Semantic HTML, Tailwind CSS, PrimeNG, Angular Material

**APIs, Security & Integration:** REST APIs, SignalR, WebSockets, JWT Authentication, RBAC, Route Protection, Multi-Tenant Applications, IoT Dashboards, Data Visualization

**Testing, Delivery & Tools:** Unit Testing, Jasmine, Karma, Git, GitHub, Continuous Integration, ESLint, Prettier, Postman, Swagger, Vercel, Jira, Agile Scrum, Code Reviews, Stakeholder Collaboration, Troubleshooting

## EDUCATION

**Bachelor of Science in Computer Science** | October 6 University | Sep 2017 - Jun 2022

**MEARN Stack Development Program** | Information Technology Institute (ITI), Qena | Jun 2023 - Oct 2024

## CERTIFICATIONS

- Angular - The Complete Guide (2025 Edition) | Udemy | 2025
- Full Stack JavaScript Development | Udemy | 2023

## LANGUAGES

**Arabic** | **English**