

# MOHAMED SHABAN

Senior Front-End Engineer React · Angular · TypeScript · JavaScript · HTML5/CSS3

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## PROFESSIONAL SUMMARY

Senior Front-End Engineer with 3+ years of experience building high-performance, user-facing applications at scale. Expert in React, Angular, TypeScript, and modern CSS, with a proven track record of translating UI/UX wireframes into pixel-perfect, responsive interfaces across browsers and devices. Currently leading frontend architecture across 3 production codebases at M2A-FM GmbH — including a 17-module admin dashboard with hierarchical RBAC and interactive product demo with GSAP scroll-driven animations. Strong ownership mindset with full-stack capability — equally comfortable designing API endpoints and tackling backend problems end-to-end. Prior experience optimizing a legacy platform serving 10,000+ users, achieving a 92% reduction in load times.

## TECHNICAL SKILLS

### PRIMARY STACK

|                |                                                                                                                         |
|----------------|-------------------------------------------------------------------------------------------------------------------------|
| Languages      | JavaScript (ES6+), TypeScript, HTML5, CSS3, Python, SQL                                                                 |
| Frontend       | React, Next.js, Angular 20 (Signals, OnPush, Standalone), RxJS, Tailwind CSS, GSAP, Three.js, Astro 5, Konva, Fabric.js |
| Testing        | Jest, cross-browser & cross-device testing, responsive design validation                                                |
| Backend        | NestJS 10, Node.js, Express.js, REST APIs, GraphQL, Prisma, PostgreSQL, Redis, WebSockets                               |
| Cloud & DevOps | AWS (S3, CloudFront), GCP, Docker, Cloudflare, Vercel, CI/CD, Git                                                       |
| Tools          | Figma (design-to-code pipeline), Chrome DevTools, Lighthouse, Claude Code CLI                                           |

## FRONTEND COMPETENCIES

- Component-driven architecture with lazy-loaded feature modules and reusable component libraries
- Web Performance Optimization — code splitting, CDN delivery, caching strategies, Lighthouse audits
- Cross-browser & cross-device responsive design (built natively into development workflow)
- Scroll-driven animations and interactive UI (GSAP, Three.js, CSS animations)
- Signal-based state management with Facade pattern
- Windowed data hydration with optimistic UI updates

- Translating UI/UX wireframes and design systems into production-ready visual elements
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## EXPERIENCE

### Senior Front-End Engineer & Technical Lead

M2A-FM GmbH | Germany (Remote) | Aug 2025 – Present

*Leading frontend architecture across 3 production codebases for Pilot 100, an enterprise aviation LMS. Sole technical decision-maker across 4 product verticals (main app, admin dashboard, marketing site, backend API).*

- **Admin Dashboard (Solo, 1 month):** Delivered a comprehensive Angular 20 admin panel with 17 lazy-loaded feature modules, a 6-tier hierarchical RBAC system with wildcard permission matching (resource:action format), real-time analytics dashboards with 12-hour cache warmup cycles, and full audit logging. Built entirely from reusable, well-engineered components designed for scalability and maintainability.
- **Marketing Site (Solo):** Built a high-performance landing page using Astro 5 + GSAP + Three.js, featuring a 3,720-line fully interactive product demo with animated cursor tutorials, handwritten annotations, and scroll-driven feature storytelling. Deployed on Cloudflare with React island pattern (single React component hydrates on visibility only). Optimized for speed across all browsers and devices.
- **Test Engine UI:** Built the front-end test session interface with windowed question hydration (preloading 10 questions around current index), optimistic navigation with queue-based state updates, and mode-specific UX logic across 4 exam types (STUDY, EXAM, CUSTOM\_EXAM, STUDY\_PLANNER) — each with distinct timer behavior and answer visibility rules.
- **Gamification UI (Solo):** Designed and implemented the complete gamification interface — 12-tier rank progression visuals, XP progress animations, streak tracking displays, achievement system (5 categories, 4 rarity tiers), activity heatmap, and exam readiness scoring dashboard with weighted metrics visualization.
- **UI/UX Translation Pipeline:** Established a Figma-to-code workflow using MCP integration, translating wireframes and design specs directly into production Angular components with pixel-accurate fidelity while sharing in the app design phase.
- **Team Leadership:** Led a cross-functional team of 4 engineers. Mentored a senior Next.js developer to Angular production fluency in under 1 month. After the frontend developer departed mid-project, solo-managed all 3 frontend codebases while maintaining backend module ownership.
- **Full-Stack Ownership:** Also owned backend architecture (NestJS 10, 300+ REST API endpoints, Redis caching, BullMQ job queues), demonstrating willingness to tackle backend problems and design scalable API endpoints end-to-end.

### Software Engineer

OLS Kuwait | Remote | Sep 2021 – Mar 2024

- **Modernized a legacy ERP system (PowerBuilder + MSSQL):** serving 25+ corporations and 10,000+ end-users, resolving deep architectural debt accumulated over 15+ years.
- **Web Performance Optimization:** Reduced application load time from 40s to 3s (92% improvement) by re-architecting frontend modules and optimizing data fetching for 10,000+ concurrent users.
- **Achieved 95% reduction:** in report generation time (30s → <2s) by rewriting 50+ SQL procedures and optimizing data rendering pipelines.
- **Maintained weekly release cycles:** clearing backlogs of 100+ tickets per week during a critical staffing shortage, ensuring continuous delivery and system stability.

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## KEY PROJECTS

### Pilot 100 — Aviation LMS Platform | pilot100.de

Full-stack platform (Angular 20 + NestJS 10 + PostgreSQL 16 + Redis) with 27,000+ questions, CQRS test engine, adaptive study planner, gamification, Stripe payments, and enterprise admin dashboard. Solo-managed 3 frontend codebases + backend API.

### XIII Store — E-Commerce Platform

Built a customer-facing storefront and admin dashboard using Angular + Firebase, featuring Stripe payment processing, real-time inventory sync, and a comprehensive analytics dashboard. Reduced operational task time by an estimated 90%.

### Jarvis — AI-Powered Job Search Command Center

Full-stack application (Angular 18, NestJS, Prisma, PostgreSQL) with Claude AI integration for end-to-end job search automation — including resume parsing and ATS-optimized tailoring, 6-block job evaluation reports, JD matching with gap analysis, Gmail inbox scanning for opportunities, interview prep with STAR story generation, application pipeline tracking, and a Chrome extension for one-click autofill on LinkedIn, Indeed, Greenhouse, and other job boards. Features real-time WebSocket notifications, BullMQ job queues, and Google OAuth for seamless Gmail sync.

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## CERTIFICATIONS

- **Full-Stack Developer — Udacity / Ministry of Communications & IT, Egypt (2022)**
- **Claude Certified Architect (CCA), Foundations — Anthropic (2026)**

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## EDUCATION

**Ain Shams University — B.S. in Business Administration | May 2023**

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## ADDITIONAL

- **Languages:** Arabic (Native), English (Professional), German (Learning)
- **Problem Solving:** Actively solve algorithmic challenges on platforms like LeetCode