

Omar AbdelHalim Frontend Developer

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Summary

Dynamic Frontend Developer with extensive experience in crafting scalable, user-centric web applications using React, Next.js, and TypeScript. Recognized for implementing Test-Driven Development (TDD) practices that enhance code quality and reduce defects. Passionate about mentoring emerging talent and driving innovation to deliver exceptional user experiences in both collaborative and independent environments.

Work Experience

Atomica AI, USA (remote) - Senior Frontend Developer

July 2024 - present

- **Architectural Leadership:** Spearheaded the frontend architecture migration to Next.js and TypeScript, establishing strict type safety standards that reduced runtime errors and improved developer velocity.
- **3D Web Integration:** Engineered a high-performance 3D visualization module using Three.js and WebGL, enabling dentists to view, manipulate, and edit complex patient models directly in the browser—eliminating the need for external desktop software.
- **SaaS Infrastructure:** Designed and deployed a scalable Admin & Billing Dashboard (using Ant Design and Tailwind CSS) that manages multi-tiered subscriptions and user permissions for enterprise clients.
- **System Reliability:** Built a robust cloud-based file management system with secure upload/download pipelines, ensuring HIPAA compliance for sensitive patient data.
- **Mentorship:** Actively mentoring junior engineers on clean code principles, React patterns (Hooks/Context), and System Design.
- **Links:** [Case Cloud \(dev mode\)](#) | [Atomica Website](#)

3sixty, Atlanta (remote) - Software Developer

July 2021 - July 2024

- **Cost Reduction:** Led the strategic migration from a legacy NetSuite system to a custom-built React portal, eliminating licensing fees and resulting in annual savings of USD 100,000.
- **Performance Optimization:** Modernized legacy logistics dashboards by refactoring the codebase, reducing bundle size by 45% and cutting page load times from 5s to 2.8s (improving Core Web Vitals).
- **Engineering Standards:** Standardized the development environment by enforcing ESLint, Prettier, and Storybook across the team, which reduced code smells and accelerated the pull-request review cycle by 20%.
- **Link:** [3sixty Web Courier](#)

SWISO Dev. , Alexandria - Software Developer

December 2019 - June 2021

Delivered full-lifecycle frontend development for high-traffic government and educational platforms in Saudi Arabia (KSA) and Egypt.

- **Wodooh (Dynamic Workflow Engine):** Built a dynamic form generation system that collects data from various government entities and visualizes it via interactive statistical charts (using Chart.js or similar libraries).
- **Sejelli (EdTech):** Developed the frontend for a comprehensive school management system used by Quran schools across KSA, handling student registration, grading, and attendance tracking.
- **Electronic Arbitration System:** Built the judging interface for the International Quran Competition of King Abdul Aziz, ensuring real-time scoring synchronization and a seamless UI for high-profile judges.
- **Mobile Development:** Contributed to the "Quran-keys" web and mobile application, implementing responsive designs for cross-platform compatibility.
- **Link:** [Quran-Keys Website](#)

Key Skills

Frontend development (React, Next.js, HTML, CSS, JavaScript, TypeScript, Redux, Redux tool kit, figma, Git, SCSS, Styled Components, Tailwind), **Web 3D graphics** (three.js, react-three-fiber, react-three/drei), **Mobile development** (React Native, Flutter) , **Backend development** (Node.js, Express, Python, Django, Docker, tsoa), **Cloud development** (Amazon AWS, Firebase), **Automation testing**(Unit testing, Integration testing, E2E testing, Jest, Vitest, Enzyme, React Testing Library, Cypress)

Education

Alexandria University, Egypt - Bachelor of Mechanical Engineering - June 2018

Languages

Javascript: Mother tongue, English: Fluent (IELTS score of 8), French: Proficient