

Mohamed Elkady | Senior Software Engineer (Frontend)

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Software engineer with 6+ years of experience building web applications, evolving from frontend development to leading architecture and scalable frontend systems. Specialized in frontend architecture, performance engineering, and building maintainable systems that improve product scalability, engineering efficiency, and user experience.

PROFESSIONAL EXPERIENCE

Digified, Cairo, Egypt

06/2025 – Present

Senior Software Engineer - Frontend

- Serve as the frontend owner for multiple digital identity products, aligning architectural decisions with business objectives while driving platform scalability, maintainability, and delivery velocity.
- Re-architected a large-scale frontend ecosystem integrating multiple backend domains into a scalable, feature-driven platform with clear ownership boundaries and consistent development patterns.
- Designed and implemented a unified frontend infrastructure, including authentication, network communication, error handling, and shared application workflows, reducing duplication and improving engineering efficiency.
- Led an incremental migration strategy that enabled continuous feature delivery while modernizing legacy architecture and minimizing operational risk.
- Established frontend engineering standards, documentation, and development practices that improved onboarding, cross-team collaboration, and long-term maintainability across the platform.

TMAIOT, Berlin, Germany

11/2024 – 06/2025

Senior Frontend Engineer

- Joined at an early stage to translate operational and inventory-management challenges into scalable software, leading the frontend architecture of TMA's inventory platform from inception to production.
- Designed a maintainable frontend foundation, including application architecture, state management, and service communication patterns that enabled rapid feature development and long-term scalability.
- Delivered business-critical capabilities such as inventory tracking, asset visibility, real-time operational updates, and geospatial workflows, improving transparency across warehouses and field operations.
- Established reusable UI patterns and shared application infrastructure that reduced implementation complexity, accelerated delivery, and improved overall platform reliability.
- Collaborated closely with product and engineering stakeholders to convert operational requirements into scalable product capabilities, supporting business growth and customer adoption.

Dataford, San Francisco, CA

01/2023 – 12/2024

Frontend Engineer

- Partnered with product, design, and leadership teams to improve learner engagement, platform performance, and conversion, translating business goals into scalable frontend solutions.
- Introduced AI-powered learning experiences that delivered personalized recommendations and intelligent feedback, enhancing the overall learning journey and platform value.
- Reduced infrastructure costs and improved responsiveness by implementing request deduplication strategies that eliminated redundant API traffic by 30%.
- Proposed and co-led the implementation of a platform-wide gamification system, driving higher learner engagement, longer session durations, and increased premium conversions through reward-based learning mechanics.
- Led performance and SEO initiatives, including the migration to Next.js and frontend optimization efforts that improved load times by 36%, increased paid signups by 12.9%, and drove over 40% growth in organic traffic.
- Championed accessibility and usability improvements, helping expand platform adoption and meet compliance requirements for enterprise and institutional customers.

Egyptian Army, Cairo, Egypt

04/2020 – 10/2022

Software Engineer

- Developed mission-critical internal web applications supporting operational workflows, logistics coordination, and reporting within a highly secure and restricted environment.
- Built responsive, performance-optimized interfaces that improved data accessibility and increased operational reporting efficiency by 30% across multiple command units.
- Translated operational requirements into reliable software solutions under strict security, compliance, and deployment constraints.

Upwork, Remote

01/2019 – 04/2025

Independent Software Engineer (Client Projects)

- Delivered production-grade web applications for multiple clients, building scalable frontend systems using React and integrating backend services via REST and GraphQL APIs.
- Improved application performance and SEO through Lighthouse audits and frontend optimization, achieving up to 99 Lighthouse scores and increasing organic traffic by 60%.
- Ensured cross-browser compatibility and WCAG 2.1 accessibility compliance, reducing QA cycles by 15% and improving overall UI reliability.
- Designed and implemented CI/CD pipelines using Netlify and Firebase Hosting, enabling automated deployments and faster release cycles across client projects.

CORE EXPERTISE

- **Frontend Architecture & Engineering:** React, Next.js, Vue.js, TypeScript, modular frontend architecture, scalable multi-domain frontend systems
- **Performance Engineering:** Core Web Vitals, Lighthouse optimization, bundle splitting, lazy loading, tree-shaking, rendering optimization, cross-browser performance tuning, observability & debugging (browser DevTools, performance profiling, runtime debugging, error tracking, frontend monitoring practices)
- **Platform & Delivery:** CI/CD pipelines, GitHub Actions, Docker, cloud-based deployment workflows (GCP, Firebase, Vercel, Netlify), automated release and delivery systems
- **UI Systems & Styling:** Design systems, MUI, TailwindCSS, Styled Components, SASS, CSS-in-JS, responsive UI engineering
- **State & Data Management:** Redux, TanStack Query (React Query), Context API, client-side vs server-state architecture
- **API Integration:** REST, GraphQL, API integration patterns, frontend data orchestration
- **Testing & Quality Engineering:** Vitest, Jest, React Testing Library, large-scale unit and integration testing, UI reliability and regression prevention
- **Security & Accessibility:** WCAG 2.1 compliance, secure-by-design frontend architecture, accessible UI systems, authentication and data protection patterns, production-grade UI safety and compliance
- **Delivery & Collaboration:** Agile/Scrum/Kanban delivery models, Jira, ClickUp, cross-functional collaboration with product and engineering teams, iterative planning and execution cycles
- **Engineering Workflow & Version Control:** Git, GitHub, GitLab, distributed development workflows, branching strategies, code review and delivery practices

SELECTED OPEN SOURCE WORK

react-image-inspector (Open Source React Package — Personal Initiative)

GitHub: <https://github.com/moaelkady/react-image-inspector>

NPM: <https://www.npmjs.com/package/react-image-inspector>

Production-grade React library for image inspection workflows in document verification, identity review, and media-heavy applications. Handles zoom, rotation, flip, magnifier, gallery navigation, and theme support via a TypeScript-first API. Built from real-world need for robust inspection UIs beyond basic image viewers.

EDUCATION & CERTIFICATIONS

B.Sc. Computer Science — Zagazig University, Egypt (2015 – 2019)

Nanodegree: Front-End Web Development — Udacity

React Developer — Zero To Mastery (ZTM Academy)

JavaScript Algorithms & Data Structures — freeCodeCamp