

Ahmed Mahmoud

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Profile

Frontend Software Engineer with 3+ years of experience designing, developing, and maintaining enterprise-scale web applications using React.js, Next.js, TypeScript, and modern JavaScript. Experienced in frontend architecture, reusable component libraries, design systems, state management with Redux Toolkit and RTK Query, performance optimization, accessibility, and SEO best practices.

Core Competencies: Frontend Architecture • Enterprise Web Applications • React Development • Next.js Development • TypeScript • Redux Toolkit • RTK Query • Design Systems • UI Component Libraries • Performance Optimization • SEO • Accessibility (WCAG) • Responsive Web Design • Agile Scrum • Code Reviews

Professional Experience

07/2023 – Present
Cairo, Egypt

Frontend Software Engineer at _VOIS (Vodafone Germany)

- Develop and maintain enterprise-scale customer-facing web applications for Vodafone Germany (vodafone.de) using React.js, TypeScript.
- Drive the migration of many repos state management architecture from Redux Saga to Redux Toolkit and RTK Query, reducing complexity and improving code maintainability.
- Design and implement reusable, scalable UI components adopted across 10+ repositories, enabling consistency across multiple product teams.
- Collaborate with UX designers, QA engineers, and product owners to deliver high-quality features through Agile Scrum methodologies.
- Improve application performance by implementing code splitting, memoization, and Core Web Vitals optimization techniques.
- Review pull requests, provide technical feedback, and promote clean architecture, reusable code, and frontend best practices across the team.
- Troubleshoot and resolve production issues, ensuring application reliability and delivering a seamless user experience.
- Integrate GraphQL and REST APIs while maintaining efficient client-side state management and optimized data-fetching strategies.
- Contribute to frontend architecture discussions, helping define scalable implementation patterns for new features.
- Participate in sprint planning, high-level and low-level technical design discussions, effort estimation, backlog refinement, and release planning.

05/2024 – present
Remote work

Frontend Engineering Instructor at ITI

- Deliver frontend development courses covering HTML5, CSS3, JavaScript (ES6+), React.js, Next.js, Responsive Web Design, and TypeScript.
- Mentor students through real-world projects and code reviews.
- Guide students in frontend architecture, Git workflows, web design and development decisions, debugging, and interview preparation.
- Help students build production-ready portfolios and prepare for software engineering careers.

10/2022 – 06/2023
Smart Village, Egypt

ITI Frontend software engineering Intern

- Complete extensive training programs on web design and development, enhancing skills in creating responsive and interactive web interfaces
- Build multiple projects and successfully passed all tests during the scholarship, demonstrating proficiency in frontend development technologies, which resulted in a comprehensive understanding of Frontend Development and UX design

Education

04/2024 – present
Smart Village, Egypt

Master of Business Administration - MBA

Arab Academy for Science and Technology
(AAST) E-Business Management major

10/2022 – 06/2023
Smart Village, Egypt

ITI 9-Months Professional Diploma

Information Technology Institute (ITI) Smart village
Web & User interface development track

09/2018 – 06/2022
Tanta, Egypt

Bachelor's Degree in Business Administration

Department of Business Information Systems (BIS)
Graduation Project: "Excellent"
Cumulative GPA: 3.75/4.0 "Excellent with honors"

Technical Skills

HTML

Pug.js, Ejs, Handlebars

Headless Components

Headless UI, Reach UI

APIs

Apollo, GraphQL (most used), REST APIs, Postman

SEO

Social Metadata, Structured Data, Mobile Optimizations, AMP

UX Design

UX Research, UX Process, Figma

CSS

SCSS, PostCSS

React.js

React Router, React Redux, React Hooks

ORMs

Drizzle, Prisma

Web Security

Session Hijacking & Injection, Cross-Site Request Forgery, CORS & Cross-Site Scripting, Content Security Policy

Testing

Unit testing: Jest, Integration test: Cypress

JavaScript

ES6, TypeScript

State Management

Context API, Redux architecture, Redux toolkit, Redux Saga

Backend

Node.js, Express.js

Memory Management

App storage management, caching mechanisms

UI librairaies

Bootstrap.css, Material UI, Chakra UI, Mainly using: Tailwind CSS, Shadcn/ui, Aceternity UI for components, CSSinJS: mostly Styled components but try to avoid and use CSS modules instead

Next.js

App router, (RSC, RCC), (SSG, SSR)

Performance

Core Web Vitals, Performance Metrics Optimization, Performance Testing

Web Accessibility

Screen Readers, Accessible HTML, ARIA, Focus Management

Projects

Vodafone.de Website [↗](#)

Worked on the maintenance, development, and migration of the Vodafone German market company website code base.

Redux-toolkit Next.js Documentantation [↗](#)

Full implemented Redux toolkit migration documentation website, adopted by 50+ developers, accelerating onboarding.

Vodafone.de Brix UI Library [↗](#)

Description: working on the development and maintenance of new UI components and styles.

ARM ARTS Production Company [↗](#)

Description: ARM ARTS production company website using React.js

Devya Solutions Software House [↗](#)

Developed Frontend of Elegant and modern Software house company portfolio

Tabib Academy Website and Mobile App [↗](#)

Lead the full stack and cross-mobile development of the platform

Drinki Coffee shop website [↗](#)

Developed an aesthetic Coffee shop website built with React.js

Arcade Gaming hub [↗](#)

Developed a gaming hub for classic arcade game lovers that was a winning GitHub IT4IT event hackathon

Event Planner Website [↗](#)

Developed A professional Event planner tool for creating and managing events as an internal training task for React.js development

ITI Scholarship Tasks & Projects [↗](#)

Full reference of ITI tasks and projects that include: building fully-fledged web apps using React.js, Angular.js, Vue.js, and Next.js.

ITI Problem Solving Bootcamp [↗](#)

Description: Problem-solving Bootcamp with my ITI colleagues.