

Kareem Gabr

Senior Frontend Engineer

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SUMMARY

A seasoned frontend engineer with over 5 years of experience specializing in Angular and React. Skilled in designing, optimizing, and scaling complex web applications with a strong focus on performance, maintainability, and user experience. Proven track record in implementing micro frontends, building framework-agnostic shared component libraries, and developing interactive data visualizations. Adept at driving architectural improvements, leading major refactoring initiatives, and migrating legacy systems to modern frameworks. Experienced in collaborating cross-functionally, mentoring junior developers, and conducting knowledge-sharing sessions to promote frontend best practices and emerging technologies.

WORK EXPERIENCE

Siemens Digital Industries Software

Cairo, Egypt

Senior Frontend Engineer

02/2020 - Present

- Led architectural improvements and large-scale refactoring of legacy codebases to align with modern standards improving maintainability and performance.
- Partnered with design and engineering teams to refactor and enhance the UI/UX of [Questa Verification IQ](#) using best practices, reducing UI issues by 60% and boosting user satisfaction.
- Developed interactive data visualization features for [Questa Verification IQ](#), increasing user engagement by 40% and reducing time spent on analyzing verification results by 55%.
- Created a cross-framework plugin generator to easily create plugins of any framework such as React, Vue.js or Angular to work as a plugin inside [Questa Verification IQ](#) framework using [Micro Frontends](#).
- Built a chrome web extension to detect and report redundant API calls during development and testing.
- Architected a framework-agnostic shared component library, allowing seamless component integration written in React, Vue, Angular, or Vanilla JS via Vite and Micro Frontends.
- Reduced build time by 90% and bundle size by 73% for [Questa Verification IQ](#) through optimizations including code splitting and tree shaking and optimized application performance by 75%, reducing page load time and improving user experience.
- Conducted thorough code reviews to ensure quality and adherence to best practices.
- Prototyped new UI concepts, authored functional specifications, and led early-stage ideation for innovative product features.
- Implemented automated tests with achieving 100% code coverage and reducing production issues by 83%.
- Migrated Coverage Analyzer from Angular 2 to Angular 18 with no functionality compromises, 0% data loss and critical performance enhancements.
- Mentored junior developers and new team members, fostering a collaborative and knowledge-sharing environment.
- Conducted multiple knowledge sharing sessions on emerging frontend technologies to development teams, promoting best practices and industry trends.
- Mentored students on their senior thesis project, resulting in 5 students receiving honors at graduation.

Microfilm and Documentation Center (MDC)

Cairo, Egypt

Freelance Frontend Engineer

06/2021 - 03/2022

- Collaborated with a team of 3 developers to successfully deliver an ERP system using React and Redux on time, under budget, and with a 100% bug-free launch while resulting in a 20% increase in overall efficiency for the company.
- Created a shared library for custom components to be used across different parts of the system.
- Created a search engine for archives using Angular for Frontend and Node.js for Backend.
- Leveraged JavaScript to create interactive components and animations, resulting in an improved user experience.

ITSC - Egypt

Cairo, Egypt

Full Stack Developer Intern

06/2019 – 10/2019

- Maintained the frontend for several ports which integrates the working cycle of Ministry of Tourism with Ministry of Internal Affairs.
- Implemented some software engineering architecture and design patterns.
- Developed a modular, single-page web application in Angular that incorporated responsive design principles.
- Incorporated third-party APIs into the web application for data exchange and real-time updates.

EDUCATION

Cairo University, Faculty of Engineering

Giza, Egypt

Bachelor of Communication and Computer Engineering

06/2020

GPA: 3.3

SKILLS

Languages: TypeScript, JavaScript, HTML, SASS, SCSS, CSS, C/C++, Java, Python

Frameworks: Angular, Next JS, Vite, Node.js, Stencil

Libraries: React, Redux, Redux Toolkit, NgRx, RxJs, Styled-Components, React Query, Ag-grid, Apex charts, D3.js, Storybook, Bootstrap, Tailwind

Source Control: GIT, Perforce, GitLab

Testing: Jasmine, Karma, Jest

Databases: SQL, Postgres, Firebase, GraphQL

Design: Photoshop, Figma

Deployment: Jenkins, GCP, Docker, Nginx

CERTIFICATES

Complete Web & Mobile Designer: UI/UX, Figma, +more

03/2023

Udemy

Advanced Frontend Development Nanodegree (React)

01/2021

Udacity

Angular - The Complete Guide

09/2019

Udemy

LANGUAGES

English	<i>Bilingual</i>
Arabic	<i>Native</i>
French	<i>Daily Conversations</i>
Japanese	<i>N5</i>