

Karim Shalapy

Senior Front-end Software Engineer

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SUMMARY

Senior Front-end Software Engineer with 4+ years of experience delivering performant, scalable web applications across e-commerce, travel, and SaaS sectors. Proven ability to lead projects end-to-end, mentor teammates, and refactor legacy systems for improved DX and performance. Comfortable working across modern stacks (React, Vue, Next.js, Astro) with strong focus on UI architecture, SSR, and CMS integrations. Available for remote roles worldwide, with a keen interest in relocation.

WORK EXPERIENCE

Senior Front-end Software Engineer, Tangent 🔗

07/2024 – present

London, UK (Remotely)

- Served as the lead maintenance engineer on 3 major projects simultaneously with a combined user base of over 5 million, while maintaining a 100% on-time delivery rate.
- Standardised reusable component patterns across projects, reducing front-end development time by 30% on average for shared features.
- Improved onboarding speed for new developers by 40% by introducing internal UI documentation and consistent architectural conventions.
- Took ownership of refactoring legacy codebases across 5+ projects, improving performance and DX; proactively actioned 100% of flagged TODOs within sprint cycles while aligning with leads and PMs on scope and timing.

Senior Front-end Software Engineer, TravelYalla (Part-Time) 🔗

09/2023 – 02/2025

Cairo, Egypt

- Led the full revamp of TravelYalla's website as the main developer, making all key technical decisions and delivering a high-performance SSR search platform for hotels and flights—achieving a 20% faster load time than competitors and becoming the fastest in the market, driving higher customer engagement.
- Reduced bounce rate by ~30% on core search pages after launch.

Senior Front-end Software Engineer, Brave Bison 🔗

09/2023 – 07/2024

London, UK (Remotely)

- Led the front-end team to achieve a 20% reduction in project delivery time for an e-commerce platform serving over 1 million monthly users across Europe.
- Leveraged composable architecture with Alokai, BigCommerce Catalyst, and Shopify Hydrogen to build performant e-commerce applications.
- Provided mentorship to colleagues on the Alokai stack, including delivering presentations and directly guiding developers working on Alokai projects.

Front-end Software Engineer, Robusta Studio 🔗

05/2022 – 09/2023

Cairo, Egypt

- Produced, maintained, and modified more than 8 websites and user interfaces using Vue, Nuxt, Astro, Typescript, and React.
- Ensured websites were accessible across multiple platforms, including laptops and smartphones or any screens less than 768px wide.
- Refactored unclean code which boosted performance by around 30% while enhancing the developer experience.
- Reduced website loading by more than 50% by optimizing network requests.

JavaScript Software Engineer, Nagwa Limited 🔗

03/2021 – 05/2022

Cairo, Egypt

- Wrote modern, performant, maintainable code for more than 4 B2B and B2C projects.
- Worked with React, Typescript, Mathlive, and Slate.js to make bidirectional web apps and tools.
- Produced 10+ physics simulation mini-games using JavaScript and the Canvas API.
- Integrated with Mobile Apps using WebViews in more than 3 apps.

HIGHLIGHTED PROJECTS

UK Power Networks, Work Project 🔗

07/2025 – Present

- Diagnosed and resolved a critical Next.js server-rendering failure by debugging its internal source code, restoring proper SSR behaviour, and improving page load performance by 40%.
- Optimised bundle delivery by restructuring lazy-loaded chunks, achieving a 67% reduction in initial bundle size and significantly improving first-load speed.

- Refactored CMS integration by migrating from nested Umbraco content to Block List components and implementing fragmented GraphQL queries, cutting query size by 55% and reducing build time by 30%.
- Technologies: Next.js, React, GraphQL, SCSS, Umbraco, GSAP, Formik, Yup, Swiper.js

Reed, Work Project [↗](#)

07/2024 – 07/2025

- Main developer across 6 monolithic front-end projects under the Reed account, leading implementation and delivery end-to-end.
- Integrated a custom GoCardless payment provider into Shopify's front-end app, handling all sync points and failure cases—delivered ahead of deadline with 0 bugs reported by QA or the client.
- Reduced GraphQL query sizes by 50% via proper query fragmentation, improving load times and API communication.
- Technologies: Next.js, React, GraphQL, SCSS, Contentful, Shopify, Swiper.js

Tangent Website, Work Project [↗](#)

07/2024 – 07/2025

- Improved cursor responsiveness and project performance by over 90%, eliminating jank and dropped frames by building a lightweight vanilla JS implementation with zero re-renders.
- Rebuilt the carousel with Framer Motion, removing Swiper and cutting animation-related bundle size by ~25%.
- Customized and extended 10+ components from Umbraco CMS to support dynamic content layouts and advanced UI behaviours with full responsiveness.
- Technologies: Next.js, GraphQL, TypeScript, SCSS, Framer Motion, Hubspot, Umbraco

Winparts, Work Project [↗](#)

09/2023 – 07/2024

- Achieved a 50% speed boost in the Product Listing Page (PLP) by optimizing Elasticsearch queries using the Elasticsearch SDK.
- Successfully customized the Alokaï SAP CC integration to match the client's legacy system requirements seamlessly
- Collaborated effectively with Alokaï to resolve bugs in their own implementation, improving communication and development speed across all parties.
- Technologies: Alokaï, Storefront UI, Next.js, TailwindCSS, Tanstack Query, React Hook Forms, Yup, i18next, Storyblok.

Hyperone, Work Project [↗](#)

08/2022 – 01/2023

- Fixed numerous issues in the landing page and the checkout cycle which enhanced the user experience a lot.
- Introduced more than new 5+ big features to the checkout cycle like the loyalty points system which boosted the sales of the company.
- Solo-developed the showroom app to be used in their offline stores which increased total sales by 20% for the client.
- Technologies: Nuxt.js, Vue.js, GraphQL, Villus, TailwindCSS, Swiper.

PUBLICATIONS

Big O Doesn't Tell the Whole Story [↗](#)

10/2025

Discover why Big O notation isn't enough for performance analysis. Deep dive into V8's `Array.slice()` implementation and learn why built-in methods consistently outperform custom code.

React.FC is better than you think! [↗](#)

11/2024

Explores the evolution of React.FC with modern TypeScript and React versions, debunking outdated misconceptions and presenting practical use cases and trade-offs.

How to make a Curved Cutout to any element [↗](#)

10/2022

Talks about creating a curved cutout to any element using only HTML and CSS while keeping it responsive.

SKILLS

HTML | JavaScript | TypeScript | React | Next | Vue | Solid.js | Nuxt | Astro | Redux | Redux Toolkit | CSS | Sass/SCSS | PostCSS | Tailwind CSS | Radix UI | ShadCn | GraphQL | Apollo/client | LaTeX | MathLive | MathJax | Firebase | Slate | Express | Node JS | Vitest | Jest | Data structures & Algorithms | Git | Tanstack Query | Storybook | React Hook Forms | Shopify | Hubspot | Umbraco | Contentful | Storyblok

EDUCATION

Bachelor's Degree in Metallurgical Engineering, Suez University [↗](#)

2012 – 2017
Suez, Egypt