

Samuel Fuchs

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SUMMARY

Senior Front-End Engineer with expertise in React.js, Next.js, and React Native, specializing in scalable, high-performance web applications. Proven ability to architect efficient front-end systems, reduce infrastructure costs by 50%, and scale applications to 29,000+ users. Skilled in state management (Redux, React Query), modern UI frameworks (Tailwind CSS, Material UI), and automated testing (Jest, Cypress). Passionate about mentoring developers, leading agile teams, and implementing best practices in CI/CD, monorepos, and performance optimization.

EXPERIENCE

MedCof Group (Ed Tech)

Jan 2024 - 2025

Senior Frontend Engineer (Team Lead)

Remote

- Architected and scaled the qbank.medcof.com.br educational platform, driving a 625% increase in user base from 4,000 to 29,000 students through performance optimizations and improved front-end scalability. (<https://qbank.medcof.com.br>)
- Led front-end architecture and development using React.js, Next.js, and React Native, implementing performance-optimized, scalable UI with modern frameworks (Tailwind CSS, Material UI, Styled Components, Bootstrap).
- Spearheaded innovation by delivering high-impact side projects, including a Next.js-based video platform, a flashcard application, and a microservices MVP, leveraging React, Vue, Angular, Svelte, and facial authentication for enhanced security and usability. Applied Component-Driven and Atomic Design principles to optimize UI scalability.
- Reduced infrastructure costs by 50% and optimized cloud resources, cutting email expenses by 67,000 BRL through performance tuning, caching strategies, and API efficiency improvements.
- Scaled and structured the front-end team, growing the team 4x, introducing Product, Quality, and Scrum processes, and improving support resolution rates to 100% through structured mentorship and agile methodologies. Established best practices using Git, GitHub, and BitBucket for version control and monorepo strategies for scalable development.

MedCof Group (Ed Tech)

Feb 2022 - 2024

Frontend Engineer

Remote

- Developed and maintained core web applications using React.js, Next.js, and TypeScript, ensuring responsive and optimized UI performance. Implemented Mobile-First design strategies for improved accessibility.
- Implemented state management solutions using Redux and React Query, improving data-fetching efficiency and application scalability.
- Boosted application performance by 40% through advanced optimizations, including lazy loading, code splitting, Webpack bundling, and Vite preloading, improving user engagement and SEO rankings.
- Collaborated closely with backend teams, integrating REST APIs and GraphQL, ensuring seamless data flow between services.
- Develop Flashcard MVPs to boost user engagement, providence a simple study mode where the user just swipes to the side and a more complex mode for more customization, like ANKI Flashcards. A lot of parts where applied in the Flashcard Feature for qbank.medcof.com.br.
- Designed and built "Apollo", a cloud-native video streaming platform using Next.js, Node.js, Express, and MongoDB, hosted on AWS. The platform scaled to 30,000+ users and was officially adopted as the company's video course solution. (<https://apollo.medcofqbank.com.br>)

- Redesigned and modernized UI components, incorporating Material UI and Tailwind CSS, and Storybook to improve accessibility and responsiveness.
- Contributed to CI/CD pipeline improvements, reducing deployment time by 35% and increasing development efficiency. Integrated Jest, Cypress, and React Testing Library to enforce automated testing and improve front-end reliability.
- Provided mentorship to junior developers, conducted in-depth code reviews, and established best practices for scalable front-end development, improving team-wide code quality and efficiency.

Vulpes Development

Dec 2019 - 2022

Junior Frontend Engineer

On-Site | Brazil

- Led front-end development for client projects, translating wireframes and UI/UX designs into fully responsive, high-performance web applications using React.js, Next.js, HTML, CSS3, SCSS, and JavaScript (ES6+).
- Managed client interactions, gathering requirements, aligning expectations, and implementing iterative improvements to ensure successful project deliveries.
- Implemented multilingual solutions, building scalable applications with Portuguese, English, and Spanish language support, improving accessibility and user reach.
- Optimized front-end performance, leveraging Google PageSpeed Insights and Lighthouse, reducing page load times and enhancing SEO rankings.
- Developed and maintained revenue-generating support services, ensuring post-launch updates and enhancements, leading to sustained client retention and additional revenue streams. Utilized RESTful APIs to integrate dynamic content and ensure seamless backend communication.
- Optimized UI consistency and accessibility, designing pixel-perfect interfaces with Figma and Photoshop while implementing best practices in responsive and Mobile-First development.

EDUCATION

- Postgraduate Certificate in Leadership & Technology Management (Agile, DevOps, and Technical Strategy) – Conquer, 2025
- CTO Mentorship Program – IFTL, 2024
- Tech Lead Mentorship Program – IFTL, 2024
- Microfrontends with React – Udemy, 2023
- Jest & React Testing Library – Udemy, 2022
- Node.js, Express & MongoDB – Udemy, 2022
- React & Redux – Udemy, 2021
- Advanced React Development – Academind, 2020
- JavaScript (ES6+) Fundamentals – Udemy, 2020
- HTML5 & CSS3 Mastery – Udemy, 2020
- Associate Degree in Human Resources – 2013

LANGUAGES

English – Fluent

Portuguese – Native (Fluent)

German – Native (Fluent)

Spanish – Basic Proficiency

French – Basic Proficiency