JÚLIO CARNEIRO

Senior Frontend Engineer | Senior Front-end Developer

React · Next.js · TypeScript · React Native · Web Performance · Design

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PROFESSIONAL SUMMARY

Senior Frontend Engineer with 17 years of experience in web and mobile development, specialized in React, Next.js, TypeScript and React Native. I currently lead frontend architecture at VoA Health, an AI healthtech, where I built a real-time collaborative editor and AI-powered mobile apps. Experience with high-traffic products (HostGator, Mitsubishi Motors, Folha de S.Paulo), web performance (100 on Google PageSpeed), technical SEO, automated testing (100% coverage), design systems and CI/CD. Graphic Design degree in progress and hands-on 3D and video editing, which helps me ship interfaces true to the design and work closely with UX/UI and product teams.

- 100 on Google PageSpeed for the Mitsubishi Motors Brazil website and VoA Health key pages.
- 100% unit test coverage (Jest and React Testing Library) on a Web3 platform.
- Author of open source TypeScript libraries and 10 technical articles on React, React Native and security.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, HTML5, CSS3, Sass

Frontend: React, Next.js, React Native, Gatsby, Redux, Redux Saga, Zustand, React Query, Context API

UI and styling: Tailwind CSS, Styled Components, Emotion, shadcn/ui, Framer Motion, Design Systems, Storybook, responsive design

APIs and backend: GraphQL, Apollo Client, REST APIs, Node.js, Express, Prisma, Firebase, Supabase

Testing and quality: Jest, React Testing Library, Cypress, Playwright, unit and E2E testing, ESLint, Husky, code review

DevOps: Git, GitFlow, GitHub Actions, CI/CD, Docker, Vercel

Performance and SEO: Core Web Vitals, Google PageSpeed, Lighthouse, SSR, SSG, technical SEO

Real-time and CMS: Liveblocks, Tiptap, headless CMS (Strapi, Payload CMS), WordPress

Web3: Wagmi, Ethers.js, smart contracts

Observability: Sentry, PostHog, Datadog

Security: Web application security, XSS prevention, Linux, Nmap, Burp Suite

PROFESSIONAL EXPERIENCE

Senior Frontend Engineer | VoA Health

11/2023 - Present

AI healthtech for doctors

- Lead frontend architecture for web and mobile products with Next.js, React and TypeScript.
- Built a real-time collaborative document editor with Liveblocks and Tiptap.
- Shipped React Native apps for real-time voice transcription and AI medical assistance.
- Created a headless CMS that lets marketing publish content without engineering support.
- Brought key pages to 100 on Google PageSpeed (Core Web Vitals and technical SEO).
- Set CI/CD, ESLint, Husky and code review as team standards, reducing production issues.

Tech: Next.js, React, TypeScript, React Native, Zustand, Liveblocks, Tiptap, Docker, CI/CD

Frontend Engineer | Munchies

12/2022 - 10/2023

Web3 finance platform

- Designed the frontend architecture, using Wagmi and Ethers.js to interact with smart contracts.

- Reached 100% unit test coverage with Jest and React Testing Library, following GitFlow.
- Optimized GraphQL queries with Apollo Client, reducing the data loaded on the client.

Tech: Next.js, React, TypeScript, Wagmi, Ethers.js, GraphQL, Apollo, Redux Toolkit, Jest

Senior Frontend Developer | HostGator LATAM

07/2021 - 12/2022

Web hosting

- Maintained and evolved the revenue flows across Latin America: checkout, cart, customer area and chat.
- Worked with Product Managers and Designers on conversion and user experience improvements at scale.
- Documented components in Storybook and covered critical flows with Jest tests.

Tech: React, Next.js, TypeScript, Redux Saga, Storybook, Jest, Docker, CI/CD

Front-end Engineer | Mobiauto

08/2020 - 07/2021

Automotive marketplace; client Mitsubishi Motors Brazil

- Architected the new Mitsubishi Motors Brazil website in Next.js, Preact and TypeScript, scoring 100 on Google PageSpeed with a focus on SEO.
- Built a Google Chrome extension that compares PageSpeed between development and production.

Tech: Next.js, Preact, TypeScript, Context API, Jest, Cypress, Storybook

Front-end Engineer | Lapag (gal, salon)

09/2019 - 08/2020

Management software for beauty salons

- Built the help center and blog in Gatsby, focused on performance and SEO.
- Developed features for the management system with Meteor, React and Styled Components.

Tech: Gatsby, React, Meteor, Styled Components, Redux, TypeScript

React Developer | Pixter

09/2018 - 09/2019

Software consultancy; client Porto Seguro

- Owned the architecture of a scalable system for Porto Seguro with React, Redux and Firebase.

Tech: React, Redux, Firebase, Styled Components, Cypress

Fullstack Developer | Freelance

05/2017 - 08/2018

Clients such as Sprinta and Betafly

- Built React Native apps for sporting events.
- Built full-stack websites and landing pages for clients.

Tech: React Native, React, Node.js

Front-end Developer and Webmaster | Folha de S.Paulo, ClickBus and agencies

2009 - 2017

Folha de S.Paulo, ClickBus, Itelios, Gauge, Urban Summer

- Folha de S.Paulo: webmaster and system monitoring with Nagios and Cacti.
- ClickBus: helped build the early product with HTML, Sass and jQuery.
- Agencies: VTEX and Magento e-commerce, analytics for Vivo and digital campaigns for Itaú, Abril and Audi.

Tech: HTML, CSS, Sass, JavaScript, jQuery, VTEX, Magento

PROJECTS AND OPEN SOURCE

- **veloz** (github.com/juliocarneiro/veloz): Reactive frontend framework with no Virtual DOM, powered by Signals (TypeScript).
- **ChordKit** (chordkit.vercel.app): Music library for the web: SVG chords, MIDI and microphone detection (TypeScript).
- **TabKit** (tabkitlib.vercel.app): Responsive SVG tablature with audio synthesis and MusicXML parsing (TypeScript).
- **boilerplate-next-ts** (github.com/juliocarneiro/boilerplate-next-ts): Next.js starter with TypeScript, Storybook, Jest and GitHub Actions (44 stars).

- **3D Guide** (3dguide.info): Guide with 290+ shortcuts and workflows for Blender, ZBrush, Substance and Maya (Next.js).
- **juliocarneiro.dev** (juliocarneiro.dev): Next.js 16 portfolio scoring 100 for performance on Lighthouse.

PUBLICATIONS

10 articles on React, React Native, Flutter and web security, published on Medium and in the Tableless and React Brasil publications (in Portuguese). medium.com/@juliocarneiro

EDUCATION

Bachelor's in Graphic Design, Anhembi Morumbi University | 2025 – 2027 (in progress)

CERTIFICATIONS

CSIRT Foundation | Linux Essentials | Linux System Administration | Cybersecurity & Ethical Hacking | Cybersecurity Fundamentals (Cisco)

LANGUAGES

Portuguese: native | English: intermediate

ADDITIONAL SKILLS

Graphic and UI design (Figma, Photoshop), 3D modeling and rendering (Blender, ZBrush, Substance Painter), and video editing and VFX (Premiere Pro, After Effects). Portfolio: juliocarneiro.art