

MARCOS VINICIUS FERREIRA MORAES

Senior Frontend Engineer | React · React Native · TypeScript · Offline-first Mobile
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Open to remote opportunities.

SUMMARY

Senior Frontend Engineer with 14+ years building web and mobile applications with React, React Native and TypeScript for a government platform serving 90,000+ users. Shipped two offline-first React Native apps used by field inspectors in rural areas without connectivity, cutting inspection processing from 7 days to 1 (-85%). Experienced with local-first data (Realm), sync on reconnect, lightweight global state (Zustand) and render performance on low-end devices; reduced application load times by up to 40% and migrated a public portal from Angular 15 to 22 without stopping delivery. Comfortable across the stack (.NET, SQL, PostgreSQL), which helps me design frontends around how data actually behaves.

CORE SKILLS

- **Frontend & mobile:** React, React Native, TypeScript, JavaScript (ES2023), Next.js, Angular, HTML5, CSS3, responsive design, accessibility
- **State & data:** Zustand, use-context-selector, Realm (offline-first), AsyncStorage, connectivity-driven sync, RxJS, REST APIs, Zod
- **Quality & delivery:** Jest, Vitest, ESLint, Prettier, code review, CI/CD (GitHub Actions, Azure Pipelines), Docker
- **Backend:** .NET 8 / C#, ASP.NET Core, SQL Server, PostgreSQL / Supabase, Prisma, JWT and OAuth

EXPERIENCE

Senior Software Engineer

Mar 2019 – Present

Mil Tec Tecnologia da Informação, Campo Grande, MS (allocated to the Government of Mato Grosso do Sul, agricultural defense platforms)

- Build web and mobile applications for eSaniagro, the state animal and plant health platform with 90,000+ users.
- Shipped two production React Native apps, eVIGI@GRO and Transportador, built offline-first: Realm as the local source of truth, initial data load and sync of pending records when connectivity returns. Cut inspection processing from up to 7 days to 1 (-85%) and improved transport efficiency by up to 20%.
- Hardened the offline layer: fixed Realm transactions left open, concurrent writes and a startup race condition that caused inconsistent state on launch; moved image uploads to multipart FormData for weak rural connections.
- Upgraded the public services portal from Angular 15 to Angular 22 incrementally, version by version, keeping the product shipping during the migration.
- Cut application load times by up to 40% through performance optimization, state management and API integration improvements.
- Built an internal monitoring solution with proactive alerting and anomaly detection, including early identification of bot-driven traffic.
- Work across the stack: built .NET 8 APIs consumed by the apps (JWT, Kafka events, 259 unit tests) and diagnosed production SQL Server deadlocks on payment tables.
- Products shortlisted nationally at the ENAP Public Sector Innovation Contest (Brazil's National School of Public Administration) in 2019 and 2020.

Software Engineer

May 2013 – Mar 2019

Mil Tec Tecnologia da Informação, Campo Grande, MS

- Led the visual redesign of eSaniagro, delivering a modern, responsive interface across desktop, tablet and mobile that increased usability and adoption.
- Built user interfaces with React, Angular and KnockoutJS, integrated REST APIs and implemented state management for critical workflows; helped the team adopt Scrum and continuous delivery.

Software Support Analyst

Feb 2012 – May 2013

ITEL Informática LTDA, Campo Grande, MS

- Developed and maintained web applications with C#, JavaScript and ASP.NET MVC 3.

INDEPENDENT PROJECTS (CLIENT WORK)

Dr. André — Medical practice site and admin · Next.js 16, Prisma, NextAuth, Zod, AWS S3

- Sole developer: public site, admin area with Google sign-in and a booking slot engine covered by Vitest tests.

ForYouClinic — Clinic management system · *Next.js 16, Supabase / PostgreSQL*

- Sole developer: scheduling with double booking prevented at the database level, financial module and row-level security.

Novilho Precoce (ASSOCIAPEC) — Producers' association system · *React, Vite, .NET 8*

- Sole developer of the React frontend and its CQRS API, with profile-based authorization and status-driven workflows.

EDUCATION

B.Sc. in Computer Science, Centro Universitário Anhanguera (UNAES), Campo Grande, MS. 2008 – 2011.

LANGUAGES

Portuguese: native · **English:** B2 (upper intermediate, CEFR), actively improving toward professional fluency