

Rômulo Valentim

Full Stack Software Engineer | TypeScript · React · Next.js · React Native · Node.js

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Summary

4+ years building production web and mobile apps in health tech, including a wellness platform with **122K+ active users**. Grew from intern to **Acting Tech Lead of an 8-developer team** at DNA Center, then led English-language technical meetings with **Prudential** teams at Fully Ecosystem.

Skills

Programming Languages: TypeScript, JavaScript, Kotlin, Swift, Python, SQL, HTML, CSS

Frontend: React, Next.js, React Query, Zustand, React Hook Form, Tailwind CSS, Material UI

Mobile: React Native (iOS/Android, upgrades), Expo, Kotlin/Swift native modules, App Store/Google Play publishing

Backend & Cloud: Node.js, NestJS, Express, REST APIs, PostgreSQL, MongoDB, Firebase, GCP, AWS, Docker

AI: OpenAI API (LLM chat assistant, AI-generated reports, text-to-speech)

Testing & Tools: Jest, Cypress, Selenium, Puppeteer, Git, GitHub Actions (CI/CD), Storybook, Figma, Jira, Agile/Scrum

Professional Experience

Full Stack Engineer | Fully Ecosystem | São Paulo, Brazil (Remote)

Jun 2025 - Jul 2026

Wellness and rewards app affiliated with Prudential Financial, with 122K+ active users

- Improved authentication speed by **40%** by redesigning the auth system with ForgeRock.
- Built **native Kotlin (Android) and Swift (iOS) modules** to integrate Samsung Health, Apple Health, and Health Connect into the React Native app, syncing user health data across platforms.
- Led recurring **English-language technical meetings with Prudential teams** on architecture, priorities, and bugs.
- Migrated the weekly goals and coin rewards features to new APIs after a partner discontinued its platform: mapped every frontend and SDK call to the old system, switched them over, and tested each flow to catch and fix breakages.
- Created Next.js/TypeScript admin dashboards for the operations team (user data, goal progress, coin balances, health integrations) and shipped NestJS backend features on PostgreSQL and MongoDB, covered by end-to-end tests.

Full Stack Engineer | DNA Center | Natal-RN, Brazil (Remote)

Apr 2022 - Jun 2025

Intern (Apr 2022) → Full Stack Engineer (Jan 2023) → **Acting Tech Lead of 8 developers** (Dec 2024)

- Reduced patient wait times by **50%** by building a real-time queue system (Next.js web app and React Native Android TV app on Firebase Firestore), using transactions to prevent the same patient from being called twice.
- Cut manual exam authorization time by **over 80%** by automating workflows across multiple insurance providers, each with a dedicated Puppeteer/Selenium bot that retried and skipped failures without blocking the cycle.
- Led architecture, code reviews, standards, and mentoring for a team of **8 developers**, applied Clean Architecture to new projects, and created the company-wide **Design System** from scratch (Storybook, Figma).
- Built the document digitization platform (Next.js, Firebase) that stored **millions of medical documents**.
- Reduced deployment regressions with Jest unit tests (one per use case in a Clean Architecture TypeScript/NestJS backend), Cypress integration and e2e tests, and CI/CD on GitHub Actions.

Full Stack Engineer (Freelance) | AvaliarMe | Natal-RN, Brazil (Remote)

Feb 2023 - Jun 2025

Part-time, concurrent with the DNA Center role

- Built a QR-code customer feedback platform in Next.js and Firebase where customers rate establishments and staff, collecting **hundreds of ratings daily** across **50+ establishments**.
- Implemented an **AI chat assistant** with the OpenAI API in the establishment dashboard that analyzes customer ratings and comments for a selected period and suggests improvements to owners.
- Automated ~200 monthly notifications via WhatsApp Business API (Meta), sending feedback summaries to owners through Google Cloud Scheduler jobs with retries, error logging, and duplicate-send checks.
- Cut monthly report creation from roughly **2 hours to a single-click download**.

Personal Projects

Lumen | Microlearning App | React Native, Expo, OpenAI API, GCP | [Google Play](#)

Feb 2026 - Present

Designed and built a mobile microlearning app (PT/EN/ES), an alternative to endless social media scrolling for professionals aged 25-45. Responsible for product, interface design, development, and marketing (Google Ads). Integrated the OpenAI API for lesson text-to-speech and weekly AI reports via Google Cloud Functions.

Education

Undergraduate Technologist Degree in Systems Analysis and Development | IFRN, Brazil | 2017 - 2023

Capstone: Medical document digitization system based on the production platform built at DNA Center.

Languages

Portuguese (Native) • English (Professional working proficiency) • Spanish (Basic)