

Yago Marinho

Senior Software Engineer · Full-Stack TypeScript · AI-powered products

Rio de Janeiro, Brazil · Open to remote
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SUMMARY

I like building things that actually work for the people who use them. I'm a Software Engineer with 7 years turning ideas into complete digital products: understanding what people need, designing the interface, writing the code and making sure everything ships safely, mostly with TypeScript, React, Node.js and AWS. I use AI every day as a programming partner, always with the final call in my hands. Before tech, I spent 8 years as an officer in the Rio de Janeiro Fire Department, where I learned to lead, stay calm under pressure and communicate clearly.

Projects, blog and socials: links.yagomarinho.com.br/en-us

EXPERIENCE

Senior Software Engineer · MSI Informática

Aug 2026 – Present

Rio de Janeiro, Brazil · On-site · Full-time

- Build the company's CRM/ERP, a TypeScript monorepo, from architecture to AWS deployment.
- **Shipped the WhatsApp & Instagram (Meta) integration to production**, the company's first foundation for these channels: a serverless webhook (AWS Lambda + API Gateway) that verifies every event's signature, keeps secrets in SSM and logs no personal data. Also published the privacy policy (LGPD, Brazil's GDPR), terms of use and data-deletion instructions required by Meta.
- **Automated, safe delivery**: infrastructure as code with AWS CDK and a GitHub Actions pipeline using OIDC, with no long-lived keys. A failing test blocks the release.
- **Omnichannel customer-support hub** (not yet released): serverless API on Lambda, React dashboard and Postgres on Supabase with row-level security and versioned migrations. Functional architecture and TDD, with 1,167 unit tests passing.
- **AI-assisted development, human in control**: I write scope, use cases, contracts, data model and architecture; Claude Code implements with TDD (failing test first). Each package has its own rules (CLAUDE.md), the agent's own decisions are logged for my review, and nothing is committed or deployed without my approval.

Stack: TypeScript · Node.js · React · AWS (Lambda, API Gateway, CloudFront, S3, SSM, CDK) · GitHub Actions · PostgreSQL/Supabase · Jest · Claude Code

Mid-Level Full-Stack Developer (Contract) · NICEPLANET

Feb 2026 – May 2026

Remote

- Built the user and authorization system, based on a DSL for permission rules, following Domain-Driven Design (DDD).
- Integrated the system with external data-validation platforms and with Power BI (cloud) for data visualization. Internationalized (i18n) interface.

Stack: React · Vite · TypeScript · Python · PostgreSQL · Power BI

Software Engineer · Freelance

Sep 2019 – Sep 2026

Remote · Independent

- Delivered complete digital products, from concept and UX/UI design to delivery and maintenance.
- **Platform for nutritionists**: converted data locked in PDFs into JSON in the system's own database, making diet, portion and other day-to-day calculations easier; tracks each client's progress and meals. React, Node.js, TypeScript, OpenAI, MongoDB, Firebase/Firestore.
- **Poker hand calculator**: concurrent processing across multiple CPU cores, written in a functional style. React, Node.js, TypeScript.

First Lieutenant · Rio de Janeiro State Military Fire Department (CBMERJ)

Oct 2011 – Oct 2019

Rio de Janeiro, Brazil

- Developed leadership, team and resource management, discipline and the ability to perform under pressure, along with organization and clear communication that I now bring to engineering teams.

OPEN-SOURCE PROJECTS

Davna · github.com/yagomarinho/davna

Conversational AI app to practice professional English, with text and voice chat and selectable voice models. Vite, Node.js, TypeScript, AI integration.

Notion-powered tech blog · blog.yagomarinho.com.br

Uses Notion as a CMS, with i18n, migrated from Next.js to Remix. An ETL pipeline mirrors the content into its own database (Node.js + MongoDB), so the site doesn't depend on the Notion API on every request.

Backend architecture kits · github.com/yagomarinho

Reusable building blocks I use across projects: transport-agnostic application kernel, domain kernel, persistence patterns and pluggable auth, token-signing and storage providers, with explicit contracts and infrastructure adapters. TypeScript.

SKILLS

Languages & frameworks	TypeScript, JavaScript, Node.js, React, Next.js, Remix, React Native, Vite, Python
Cloud & DevOps	AWS (Lambda, API Gateway, CloudFront, S3, SSM, CDK), serverless, Docker, GitHub Actions (OIDC), CI/CD
Data	PostgreSQL (Supabase, row-level security), MongoDB, Firebase/Firestore, ETL pipelines
Architecture & quality	Domain-Driven Design, functional architecture, TDD, Jest, trunk-based development
AI	LLM integration (OpenAI API), Claude Code, spec-driven AI-assisted development
Product & design	UX/UI, Design Thinking, usability testing, user stories, design systems

EDUCATION & CERTIFICATIONS

Rocketseat · GoStack Bootcamp, Software Engineering · certified Oct 2020	Jul 2019 – Dec 2020
Ironhack · UX/UI Design Bootcamp · certified Jan 2021	Jul 2020 – Dec 2020
CBMERJ · Officer Training Course	2011 – 2014

LANGUAGES

Portuguese (native) · Spanish (fluent) · English (intermediate)