Thiago Valença

SENIOR FRONTEND ENGINEER — ARCHITECTURE & AI TOOLING

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Portuguese national (EU)
Bordeaux · open to Paris, hybrid / partly remote

PROFILE

Ten years at Betclic, from Malta to Bordeaux, on regulated, high-traffic betting products, where I look after code quality and build the team's AI code-review tooling. I care about reliable software, simple solutions and teams that keep improving. I am looking for a product company, ideally one with a purpose, where I can own a frontend domain end to end and shape architecture, standards and how the team grows.

EXPERIENCE

Betclic Group January 2016 – present · Bordeaux, France (prev. Malta)

Advanced Software Engineer — Sports & Turf web applications

January 2019 – present · Bordeaux

- Contributed to the architecture of a multi-universe (Sports, Turf, Casino, Poker) **Angular / Nx monorepo** spanning **eight regulated markets**; drove **Turf's move to real time over gRPC** (race page, betting slip, probable odds, tips).
- Owned features **end to end**, from refinement with product and UX to release, across four areas: Sports offer and live (2019), regulated account journeys (KYC, gambling limits, self-exclusion, 2020), the Sports betting slip (2021–2024) and Turf / horse racing (since 2025); **1,200+ pull requests** shipped.
- Contributed to the 2021 **rebuild of the Sports betting slip** and its evolution through 2024: accumulators and system bets, freebets, boosts, per-market tax, cashout, bet builder.
- **Systematic reviewer** of the team's pull requests (**1,500+** since 2019) to share knowledge, stay across the whole codebase and keep delivery flowing; agreed tech-debt trade-offs with product.
- Designed the repository's **AI code-review system** for the team: an orchestrator splits each PR into **specialised passes run in parallel** (correctness, security, SSR, NgRx, tests, duplication…), only those the diff needs, then verifies, dedupes and ranks findings before posting. Author of both agents and 14 of the 15 review skills.
- Proposed and championed platform changes in the Angular guild: **signals migration plan**, NgRx Signal Store, zoneless, Nx boundary rules, Playwright and Vitest as testing standards.
- Built **AI tools that detect, explain and help fix what goes wrong**: a weekly Turf production review — Datadog dashboard anomalies traced to their cause in the code, with a proposed fix and ticket — and a nightly E2E report per universe that separates real regressions from flaky tests.

Full Stack Developer → Team Lead (.NET)

January 2016 – January 2019 · Malta

- Hired as a developer on arriving in Malta, then promoted up to **team lead**; delivered CRM, SEO and customer-service applications: C#, ASP.NET MVC, SQL Server, AngularJS / Angular.

EARLIER EXPERIENCE

Senior Systems Analyst (.NET) — BSA Brasil · 2011 – 2015 · São Paulo, Brazil
Critical financial web applications for major Brazilian banks, legacy and third-party integrations: C#, ASP.NET, Oracle / SQL Server.

.NET Developer — Empregos.com.br · 2010 – 2011 · Brazil
Migration from Classic ASP to ASP.NET; performance gains through caching and SQL Server optimisation.

Systems Analyst — BSA Brasil · 2007 – 2009 · São Paulo, Brazil
Web and client-server applications: ASP.NET, C#, ADO.NET, Windows Forms, Oracle / SQL Server.

PROJECTS & TECHNICAL WORK

Built outside my role to explore backend, cloud and agentic AI, held to the standards of a product in production.

Pet Management Platform · agentic development lab · private repository, demo on request

Nx · React · NestJS · PostgreSQL · Terraform · AWS · Docker

- Goal: test and implement an end-to-end **agentic development workflow** on a real product — a platform for animal-welfare associations and shelters (animal lifecycle, foster and adoption, health, documents).
- Delivery run by AI agents with explicit roles, from backlog to merge: **11 routines** (PO, planner, developer, gatekeeper, architecture guardian…), **32 skills, 6 hooks and 37 automated governance checks**, with human sign-off where a decision matters.
- Full application lifecycle handled alone: data model, API, SSR frontend, three languages with SEO, CI, then deployment and operations on AWS (2025–2026).
- **Cloud cost optimisation (FinOps)**: Terraform-managed AWS, first serverless (Lambda, API Gateway, Aurora Serverless), then simplified after **reviewing the bill** to a single ARM instance running Docker — **lower running cost**, and app deploys decoupled from infrastructure.
- WCAG 2.2 accessibility and automated tests enforced in CI (98 E2E specs, 778 unit specs).

Multi-brand design systems · thijulio.github.io/design-systems

React · TypeScript · Style Dictionary · Storybook

- Three design systems published as versioned packages, sharing the same components with each brand's visual identity through design tokens; WCAG AA contrast checked in CI, public Storybook catalogue.

AI governance tooling

Node.js · JSON Schema · CLI

- Node.js CLI that governs work done by AI agents: explicit roles and permissions per agent, outputs validated against JSON Schema, and a fail-closed gate until a review is proven on the exact commit.

SKILLS

Engineering practices	Refinement with product and UX, estimation, code review, releases, incident handling, tech debt, mentoring
Frontend & architecture	Angular (signals, zoneless, standalone), TypeScript, NgRx, RxJS, Nx, SSR / hydration, design systems, React
AI engineering	Claude Code agents and skills, multi-agent orchestration, agentic workflows with human sign-off, AI code review and production monitoring
Quality & testing	Playwright, Vitest, Jest, WCAG accessibility, CI quality gates
Backend, cloud & production	Node.js, NestJS, C# / .NET, gRPC, PostgreSQL, SQL Server, AWS, Terraform, FinOps, Docker, GitHub Actions, Datadog

EDUCATION & CERTIFICATIONS

Centro Universitário FIEO — Information Technology

AWS Certified AI Practitioner (AIF-C01) — in progress

LANGUAGES

Portuguese — native

English — fluent

French — fluent