

Ademílson Tonato

Senior Full-stack Engineer with 13+ years of frontend depth, now training frontier AI models at xAI. Previously shipped AI-powered developer tooling at Firecrawl (\$14.5M Series A; trusted by OpenAI, Shopify, Zapier, Stack AI, Replit and PwC), and led teams scaling marketplaces at Mercedes-Benz.io and Refurbed

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Skills

Languages: TypeScript, JavaScript, Python

Frameworks: React, Next.js, Node.js, Express, Vue.js, NestJS

APIs & Data: GraphQL, gRPC, REST, Zod, JSON Schema, Supabase, PostgreSQL, Redis

Infra & CI/CD: Docker, GitHub Actions, Stripe, Feature Flags, Canary Rollouts, Release Trains

Testing & UX: Jest, Cypress, Web Vitals (LCP/CLS), A/B Testing, Error Budgets

AI & LLM: LangChain, LlamaIndex, CrewAI, OpenAI API, RAG Pipelines, Prompt Engineering, MCP

Architecture: Micro-frontends, Module Federation, SSR, Design Systems, Schema-first APIs, Agentic Workflows

Experience

Software Engineering Specialist, xAI – Remote May 2026 – Present

- Train and improve frontier AI models through high-quality code curation, precise technical solutions, and detailed code reviews across JavaScript, TypeScript, Python, and Node.js
- Evaluate, validate, and refine AI-generated code against industry best practices for performance, scalability, maintainability, and reliability
- Partner with cross-functional teams to raise enterprise-grade quality standards, developer experience, and system performance for AI-powered engineering solutions

Full Stack Engineer, Firecrawl – Remote Feb 2025 – Nov 2025

- Architected integrations connecting Firecrawl's open-source AI scraping platform to n8n, Zapier, Make, CrewAI, LangChain, LlamaIndex and Coinbase x402 - accelerating enterprise onboarding and driving adoption across developer workflows
- Shipped orchestration and monitoring dashboards with Next.js, Zod, Supabase, Tailwind CSS, and Stripe; improved real-time job health and alerting, cutting operator time-to-insight and raising task success rates
- Hardened reliability with idempotent jobs, retry/backoff, and observability across Node.js/TypeScript on Express; Docker-containerised with GitHub Actions CI/CD, maintaining SLAs under traffic spikes
- Drove developer-centric API and SDK improvements with schema-first parsing and integration patterns, shortening time-to-value for enterprise pilots

Engineering Team Lead, Refurbed – Remote Jul 2023 – Feb 2025

- Scaled marketplace handling 2.5M orders/year and ~125k customers/month: improved checkout conversion +1.6pp and reduced p95 API latency -22% via TypeScript refactors, Redis service-layer caching behind gRPC, and CI/CD optimisations
- Led 8-engineer cross-functional squad to >90% OKR attainment, cutting cycle time -28% by instituting RFCs, feature flags, and automated CI gates
- Raised test coverage to 85% with Jest/Cypress and cut production incidents -37% through error budgets and on-call playbooks
- Drove +48% active-merchant growth partnering with product and ops on merchant admin features; standardised micro-frontend architecture for long-term maintainability

Senior Frontend Engineer, Refurbed – Remote Mar 2022 – Jul 2023

- Delivered merchant admin workflows (bulk import, validation, onboarding status) in TypeScript/Vue/GraphQL, directly contributing to +48% active-merchant growth and reducing lifecycle friction
- Implemented Module Federation for admin surfaces enabling domain-based independent deploys - lifted deploy frequency 3x and cut rollback MTTR -60%, with weekly release trains and safe canary rollouts

- Standardised GraphQL schemas and client patterns (pagination, error contracts, caching), reducing merchant-data support escalations -35% across 4 services

Senior Frontend Engineer, MotorK – Remote

Sep 2021 – Mar 2022

- Owned frontend architecture for LeadSpark, an enterprise CRM used by 700+ automotive clients (Ford, BMW). Led TypeScript migration, reducing runtime errors by 45% and build times by 22%
- Standardised design system components, increasing UI reuse +60% and reducing CSS payload -35% with Tailwind CSS; added Cypress e2e and Jest suites to stabilise releases

Senior Frontend Engineer, Mercedes-Benz.io – Remote

Jun 2020 – Sep 2021

- Managed 5-engineer team delivering Online Test Drive Booking across 30+ markets; supported ~250k bookings/month with load-balanced auto-scaling (3 regional clusters) and improved LCP -35% / CLS 0.05 via Vue SSR, code splitting, and image optimisation
- Reduced booking drop-offs -18% through A/B testing and analytics-driven UX changes; co-shaped design system standards, cutting component defects -30% and accelerating feature time-to-ship -25%

Earlier Experience

Senior Software Engineer, BOLD by Devoteam – Lisbon, Portugal

2018 – 2020

- Built web and digital marketing solutions for enterprise clients including the ANF National Pharmacy Association (pharmacy robot integration)

Frontend Engineer, CWI Software – São Leopoldo, Brazil

2018

- Delivered a retail management app deployed across 900+ physical stores for Via Varejo (Casas Bahia and PontoFrio), Brazil's largest retailer

Software Engineer, F4W, Planejar, Cigam, Ergoseg – Canoas, Brazil

2012 – 2018

- Built full-stack features across ERP, hybrid mobile, and web platforms using PHP, JavaScript, and MySQL

Education

UNIPDS – PGDip in Applied AI Engineering

Expected Feb 2027

Faculdade Iguazu – MBA in Software Architecture

Jan 2025

XP Educação – MBA in Software Architecture and Solutions

Jun 2023

UNISINOS – BSc in Systems Analysis and Development

Dec 2018