

Gabriel Novais

Senior Full Stack Developer | React, Next.js, Node.js, NestJS | Applied AI: LLMs, RAG, Agents

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Summary

Senior Full Stack Developer with 8+ years building web and mobile products end to end, from interface design to back-end architecture and infrastructure. At GSW I build eParts, Embraer's online aircraft-parts platform, where I ship production AI features: a RAG support chatbot and tool-calling agents on Mastra AI. Postgraduate specialist in Full Stack Development, DevOps, Product and Artificial Intelligence (Rocketseat, 2026). Freelance developer since 2018 and solo builder of two live SaaS products. Former instructor to hundreds of students. Fluent English.

Technical Skills

Languages	TypeScript, JavaScript, Python, SQL, PHP
Front end	React.js, Next.js, Angular, React Native, TailwindCSS, shadcn/ui, Chakra UI, TanStack Query (React Query), React Hook Form, Zod, Storybook, Design Systems
Back end	Node.js, NestJS, Express, Fastify, Prisma, Knex, microservices, REST APIs, JWT authentication, Socket.IO, Laravel
AI	Large Language Models (LLMs), AI Agents, Retrieval-Augmented Generation (RAG), tool calling, Mastra AI, Model Context Protocol (MCP), Prompt Engineering
Data and messaging	PostgreSQL, MongoDB, MySQL, Oracle DB, Redis, Elasticsearch, RabbitMQ, Kafka
DevOps and cloud	Docker, Amazon Web Services (AWS), Nginx, CI/CD pipelines, GitHub Actions, Git
Product and practices	Agile, Clean Architecture, Domain-Driven Design (DDD), SOLID, unit testing with Jest and Vitest, product strategy, Stripe subscription billing, Figma, UI/UX

Professional Experience

Senior Full Stack Developer, GSW Nov 2022 – Present

Contractor for Embraer, building the eParts platform (FlyEmbraer)

- Develop eParts, Embraer's online aircraft-parts platform, across React and Angular front ends and NestJS/Node.js services backed by PostgreSQL, MongoDB, RabbitMQ and Elasticsearch on AWS.
- Built an AI support chatbot that resolves eParts users' questions with Retrieval-Augmented Generation (RAG), grounding every answer in retrieved platform content instead of model guesswork.
- Designed AI agents with tool calling on Mastra AI so the assistant executes actions inside eParts, such as parts-coverage lookups, rather than only answering questions.
- Engineered and iterated the agents' system prompts and response rules (ATA chapters, promised dates, no-result fallback flows) to keep output accurate and consistent.
- Work in an agile team with daily standups and CI/CD pipelines, collaborating with architects and the project manager to deliver reliable releases at enterprise scale.

Stack: React.js, Angular, NestJS, Node.js, TypeScript, PostgreSQL, MongoDB, RabbitMQ, Elasticsearch, AWS, Mastra AI, RAG

Freelance Full Stack Developer, Novecom (independent practice) Mar 2018 – Present

Independent work under the Novecom brand, 2 to 3 client projects a year alongside full-time roles

- Deliver complete products for clients from concept to deploy as the sole developer across front end, back end and infrastructure.
- Integrate online payments with Pagar.me, real-time features with Socket.IO and event-driven architectures with Kafka.
- Build Figma-to-web projects on Next.js and headless WordPress (ACF) with reusable, CMS-driven React components.

Stack: Next.js, NestJS, Prisma, Kafka, TailwindCSS, React Query, Socket.IO, WordPress (ACF), AWS S3, Docker

Web and Mobile Development Instructor, Softgraf Sep 2020 – Feb 2023

- Taught web and mobile development with Laravel, Node.js, React.js and React Native, and led students in building a social network with React.js, Node.js and Docker.

Stack: React.js, React Native, Node.js, Laravel, MySQL, PostgreSQL, Docker

Instructor, Trybe Jun 2022 – Nov 2022

- Supported students in Node.js, React.js, Express, SQL databases and unit testing; taught hundreds of students across Softgraf and Trybe.

Stack: Node.js, React.js, Express, MySQL, Docker

Mid-level Developer, KMM

Dec 2020 – May 2022

- Built logistics software for rail operators Rumo and Brado: Angular web front end, React Native mobile app and a back end integrated with Oracle DB.

Stack: Angular, React Native, Oracle DB

Junior Developer, Webfloat

Feb 2019 – Mar 2020

- Developed custom software for multiple clients, with Angular, HTML, CSS and JavaScript on the front end and PHP/Laravel on the back end.

Stack: Angular, JavaScript, PHP, Laravel

Projects

Sophia Home, live SaaS, solo developer (sophiahome.com.br)

- Built and launched a personal and household organization platform: weekly agenda, journal, finances with cards, invoices, installments and budgets, and a shared space for couples, synced in real time.
- Implemented Stripe subscription billing with promotion-code affiliate links, and a Model Context Protocol (MCP) server with 25+ tools so AI assistants such as Claude can manage agenda and finances.

Stack: Next.js, React, TypeScript, Prisma, PostgreSQL, Stripe, better-auth, Ably, TanStack Query, TailwindCSS

Espelho Divino, live SaaS, solo developer (espelhodivino.com.br)

- Built an AI-assisted scripture study app on a tool-oriented AI Agents architecture with RAG for contextual answers, Redis caching and RabbitMQ for asynchronous processing.

Stack: LLMs, AI Agents, RAG, Prompt Engineering, Redis, RabbitMQ, Stripe

Sophia Assistant, in development

- Building a hands-free Mac controller (voice with wake word, iPhone control deck, hand gestures) to learn Rust and Swift: Rust daemon with tokio/axum WebSockets, one SwiftUI codebase for macOS and iOS, Apple Vision, Deepgram speech-to-text.

Education and Certificates

Postgraduate Specialization (Lato Sensu): Full Stack Web Development, DevOps applied to Product and Artificial Intelligence

Sep 2026

Faculdade de Tecnologia Rocketseat (accredited by MEC, Brazil's Ministry of Education), 360 hours. Modules: Technical and Strategic Foundations, Strategy and Innovation, Skills Expansion. Final grades: 94.9, 96.7 and 98.4 out of 100.

Scalable Microservices Challenge, Rocketseat (5 hours)

Jun 2025

Two independent microservices with asynchronous communication over RabbitMQ, PostgreSQL modeling, eventual consistency and data replication, observability with Grafana (structured logging, distributed tracing), deploy on AWS Fargate with Pulumi infrastructure as code. Certificate 7d14ce86-496c-4c42-8f11-6c40b8a1a863.

ReactJS Track, Rocketseat (50 hours)

Feb 2024

React fundamentals, SPAs, API consumption and performance, Next.js fundamentals and full stack Next.js apps, Design System and Storybook. Certificate de4a7e92-3ea1-4ce4-bd5c-99a3124d3861.

Node.js Track, Rocketseat (50 hours)

Feb 2023

Streams, TypeScript, Clean Architecture, Domain-Driven Design (DDD), SOLID, design patterns, REST APIs with Fastify, Knex and Prisma, JWT authentication, NestJS, Docker, testing pyramid with Vitest. Certificate 643b71fb-76aa-4245-9846-ed18eec2a0e5.

CS50W: CS50's Web Programming with Python and JavaScript

Aug 2020

HarvardX (Harvard University, via edX). Verified Certificate, ID 5288f0bba6794b4692ed1d263ecc312a.

Computer Science

UTFPR, Federal University of Technology – Paraná, Ponta Grossa, Brazil

Instructor, Web Development short course (XVII SATI 2018)

Sep 2018

Taught a 7-hour short course at the XVII Information Technology Update Week (SATI), UTFPR Ponta Grossa. Certificate key 9685512b4ed7e06f9eea45dd3375cf41.

Courses: Web Development, Softgraf (2016); English, Wizard.

Languages

Portuguese (native), English (fluent)