

Gabriel R. Antunes

Software Developer

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Profile

Software developer

Software developer with experience across public-sector systems, freelance work, private-sector software and open-source contributions. I work across backend, frontend and integrations, with growing experience in the infrastructure and operational layers around applications.

Experience

Contracted (Outsourced) Full Stack Developer

Rondônia, Brazil

Rovema Bank

July 2025 – May 2026

Worked on the evolution, maintenance, and production support of corporate systems, collaborating with multidisciplinary teams on fleet management, financial services, and institutional platforms.

- Developed and improved features for fleet management, fueling, customers, billing, and transactions.
- Implemented business rules for access permissions, financial processing, payments, calculations, and data validation.
- Developed validation and reconciliation mechanisms and reports for operations, auditing, and data analysis.
- Investigated application and database performance bottlenecks, reducing process execution times from minutes to a few seconds.
- Diagnosed and resolved production incidents, contributing to stability and operational continuity.
- Automated application deployment and update steps, including releases, database migrations, and service management.
- Reduced application build and publishing time from approximately 14 to 7 minutes.
- Developed and maintained services and APIs for financial integrations, including instant payments and bank file processing.
- Contributed to system integrations, data validation, and asynchronous task execution.
- Contributed to security controls for financial services.
- Implemented institutional pages and landing pages from designs supplied by the Design team.

Scholarship Software Developer

Rondônia, Brazil

Defensoria Pública do Estado de Rondônia

Feb 2025 – Sept 2025

Continued work on the Central de Vagas project, coordinated by IFRO in partnership with TCE-RO and DPE-RO.

- Developed full-stack features with JavaScript, TypeScript, Node.js, NestJS, React, and Next.js.
- Implemented scheduling, queue, and vacancy reports, PDF generation with Bun and jsreport, and five tutorial videos.
- Led the migration of TCE-RO infrastructure to Docker Swarm at DPE-RO, including environments, databases, and files.
- Worked with Docker and GitLab CI for deployment automation, pipelines, and monitoring.
- Participated in Gov.br integration and implemented an alternative local development authentication flow using OpenID Connect.
- Created queue-position and reservation-status indicators, location filters, and email notifications.
- Improved queries, receipts, and messages with service-location addresses and QR Codes.
- Evolved school criteria, stages, transfers, and CPF-based data recovery.
- Prototyped individual CPF queries and enrollment settings in Figma.
- Used shadcn/ui, Radix UI, SonarQube, Cypress, Git, Jira, and sprints.
- Participated in training, technical support, and knowledge transfer.

Full Stack Web Developer

Fugiwara Advogados

Ji-Paraná, Rondônia,

Brazil

Mar 2025 – June 2025

Built the law firm's institutional website end to end, from requirements analysis to deployment.

- Gathered requirements and defined features for the institutional website.
- Developed a custom WordPress theme with PHP, HTML, CSS, JavaScript, and Bootstrap 5.
- Structured content management with Advanced Custom Fields.
- Implemented legal case search with Custom Post Types and WP_Query.
- Integrated Relevanssi and developed filters by case type.
- Developed case detail pages and related document downloads.
- Integrated and customized forms with Everest Forms.
- Deployed the site on Hostinger and configured Cloudflare and DNS.

Scholarship Software Developer

Tribunal de Contas do Estado de Rondônia

Rondônia, Brazil

Jan 2024 – Jan 2025

Developed the Central de Vagas project, coordinated by IFRO in partnership with TCE-RO and DPE-RO.

- Developed full-stack features with JavaScript, TypeScript, Node.js, NestJS, React, and Next.js.
- Refactored screens, forms, and selection, date, and interval components.
- Fixed bugs and inconsistencies identified in tests and SonarQube analysis.
- Contributed to queue generation and ordering based on GAEPE priority criteria.
- Developed the public scheduling and queue consultation portal, released in August 2024.
- Implemented scheduling, vacancy, and queue dashboards and email notifications.
- Improved calendar settings, rescheduling, holidays, and date blocking.
- Supported the pilot deployment in Ouro Preto do Oeste.
- Worked with Docker Swarm, GitLab CI, readiness probes, and rolling updates.
- Collaborated on Figma prototypes, Cypress tests, and user support.
- Worked with agile methods, sprints, Jira, and Git.

Software Engineer

Fishing Booking

Ji-Paraná, Rondônia,

Brazil

Feb 2024 – Sept 2024

Evolved, maintained, and supported a fishing tournament platform in production.

- Developed features for creating, editing, managing, and registering individual and team tournaments.
- Implemented management of organizers, judges, inspectors, and anglers with role-based permissions.
- Improved tournament search, filtering, ranking, scoring, post review, warnings, penalties, and disqualifications.
- Fixed forms, validation, image and document uploads, navigation, layouts, and translations.
- Investigated and resolved incidents in testing and production.
- Updated the Expo SDK and prepared the application for App Store publication.
- Migrated hosting infrastructure, installed HestiaCP, and migrated from Plesk.
- Configured domains and DNS with Registro.br and Cloudflare.
- Participated in a video-compression microservice and in identifying and fixing critical security vulnerabilities.

Participated in software research and development projects at IFRO Campus Ji-Paraná.

- Worked as a Junior Technical Developer on a technical-education monitoring dashboard project.
- Participated in requirements analysis, technology evaluation, interface prototyping, and technical documentation.
- Developed REST and GraphQL APIs with TypeScript, Node.js, NestJS, and Apollo.
- Modeled data with PostgreSQL and TypeORM, implementing migrations and seeds.
- Implemented file uploads, Meilisearch queries, and CSV and JSON exports.
- Developed interfaces with React, Next.js, and Apollo Client.
- Implemented a visual form editor with SurveyJS.
- Created the Copper UI library based on the Brazilian government Design System.
- Integrated Keycloak with OAuth 2.0 and OpenID Connect.
- Implemented authorization with CASL and validation with class-validator and Zod.
- Contributed to a modular monorepo, Docker services, and OpenAPI documentation.
- Deployed the backend technically on Microsoft Azure.

Technical Productions

Nuxt Auth SSR authentication fix

Jan 2023

Investigated a difference between client-side navigation and SSR in the authentication flow, where `joinPathToApiURLWn` returned a promise during server rendering. The merged [PR #360](#), submitted from `guesant-fix-359`, fixed the missing `await` and closed [issue #359](#).

Unispec AST and release tooling

Jan 2024

Developed an AST and contract tooling proof of concept and improved its package distribution workflow. [PR #61](#), from `guesant-next`, added `ast-builder` and `ast-utils`; [PR #62](#) migrated consumers away from deprecated packages; [PR #93](#), from `feat/smart-release`, added conditional release automation; and [PR #96](#), from `feat/include-license-changelog-readme-in-packages`, included package documentation and licensing files in published artifacts.

UI5 visual editor ecosystem

Jan 2020

Built and refactored parts of a modular React and Fabric.js visual editor across the `ui5-monorepo` and `ui5-plugins` repositories. Work included reducing the editor bundle with [PR #146](#), generalizing object dimensions with [PR #137](#), creating a reusable actions system in [PR #131](#), and adding playground infrastructure in [PR #155](#). The plugin layer added smart rendering, canvas actions, scale editing and overflow fixes through [PR #122](#), [PR #194](#), [PR #181](#) and [PR #125](#).

NativeScript Vue migration tooling

2019 – 2020

Developed a configurable migration service for Vue to NativeScript Vue projects, including template transformation, DOM helpers, file operations, package management and automated tests. The work is preserved in seven archived repositories in the [friendly-tnsvue organization](#), with its [profile README](#) mapping the earlier migration service, plugin prototypes, v0 CLI and plugin, and v1 monorepo. [PR #73](#), from `poc_001-conf`, exported the generic migration process to a configuration file; [PR #58](#), from `feat/lib-test`, added unit tests; and [PR #21](#), from `fix/extends-component`, fixed object components with `Vue.extend`.

pwa-icon-generator

Jan 2019

Merged upstream contribution that added SVG input support and a progress bar, fixed centering for non-square images, warned when default values were used and improved icon and output path handling.

Selected early upstream contributions

2019 – 2020

Publicly verifiable upstream work from 2019 to 2020. In [extenso.js](#), [PR #20](#), submitted from [fix/babelwebpack](#) and merged into `master`, replaced the obsolete Webpack loader declaration syntax, updated packages and addressed [issue #17](#). I also opened [PR #24](#) from [feat/scale](#), linked to [issue #19](#), proposing an explicit numeric scale option; that pull request was closed without being merged. In [vue-spinners-css](#), [PR #3](#), submitted from [feat/size-support](#) and merged into `master`, implemented the `size` property across the spinner components in response to [issue #1](#). In [100-days-css](#), [PR #4](#), submitted from [feat/config-info](#) and merged into `master`, added generation of `config.json` from Git history, deterministic challenge ordering and display of each challenge's author and date. In [Sergey](#), [PR #40](#), submitted from [patch-1](#) and merged into `master`, fixed the unexpected closing `p` tag reported in [issue #39](#). A later proposal, [PR #43](#), from [smart-changetag](#), remains open and replaces regular-expression based tag processing with CSS-selector and DOM-based operations.

ava-pro

2021 – 2022

Browser extension for Moodle platforms with course search and organization, automatic-login flows, chat conversations and background notifications. The merged [PR #16](#), from [0.0.2-moodle-client-js](#), introduced the Moodle client package and closed [issue #15](#).

Selected upstream issue reports

2023 – present

Reported and investigated reproducible issues in public projects, including asynchronous Zod validation in [vorms](#) [issue #37](#), completed by the project, and property spread references in Microsoft TypeSpec [issue #7673](#), also closed as completed. Proposed broader monorepo support for [dependency-changesets-action](#) in [issue #394](#) and a corresponding draft [PR #395](#).

IFRO Ji-Paraná Schedules

Jan 2022

Tool that evolved from cropping schedule PDFs by coordinates to an extractor package, normalized SQLite-backed data and a React interface queryable by class and teacher.

JipaCoding

Selected technical records from a public video archive covering graphics, algorithms, debugging and data modeling.

- Graphics and Rendering: [Você precisa conhecer essa propriedade do CSS! | Object-fit](#).
- Algorithms and Debugging, Campo Minado: [Campo Minado #01a: O Jogo, Estrutura e Tabela](#) and [Campo Minado #01b: "Você Perdeu" & Flood Filling](#).
- Algorithms and Debugging, Debugging and Data Modeling: [Atributos Quebrados no Modelo Conceitual do brModelo: Achando Uma Solução Rápida](#).

Events

National Science and Technology Week

Brasília, DF, Brazil

Attendee.

Jan 2022

Git and GitHub Talk at IFRO Campus Ji-Paraná

Jan 2023

Speaker at IFRO Campus Ji-Paraná on Git and GitHub.

Projects

ava-pro

A browser extension for Moodle platforms with enrolled-course listing and search, pinned courses, automatic-login flows, chat access and background checks for new messages.

- Browser and Application Tooling: [Web Scraping com Web Extensions](#) | [Estático](#) | [Introdução #01](#).

home-lab

An ongoing personal infrastructure lab where I investigate the layers around an application in practice, including virtual machines, segmented networks, VPNs, firewalls, containers, Kubernetes, identity and observability.

- Infrastructure and Networking: [A Estrutura da Minha Rede e do Meu Homelab \(versão 2026.06.06\)](#) and [Dei uma arrumada na rede \(firewall pfsense + proxmox + link oi + adaptadores gigabit usb\)](#).

infrastructure-and-cluster-notebook

A public engineering notebook where I record infrastructure and cluster investigations through hypotheses, reproducible tests, failures and revisions instead of presenting the material as a finished tutorial.

fantastic-images

An older TypeScript and Fabric.js exploration for describing image templates and rendering generated compositions on canvas. Selected Graphics and Rendering records include [Gerando Imagens a partir de Templates - Programando Gráficos #02](#), [Gerando Vídeos com Algoritmos - Programando Gráficos #03](#), and [Gerando Imagens a partir de Templates \(fabric.js\) - Programando Gráficos #02](#).

fabricjs-object-fit

2022 – present

Published TypeScript library that provides CSS-like object-fit and object-position behavior for Fabric.js, including serialization support, tests and documentation. Ported the library to Fabric.js 7 in [PR #23](#) from [feat/fabric-7](#), then introduced a workspace structure in [PR #33](#) and standardized package names in [PR #34](#), both from [kebab](#).

parcel-resolver-pnpm

A 2021 proof of concept Parcel resolver that investigated the way Parcel treated pnpm's symlinked dependencies as source dependencies.

friendly-tnsvue

A 2019 proof of concept for automating parts of the migration from Vue projects to NativeScript-Vue through a CLI, migration service and reusable migration models. The history is now preserved across seven archived repositories in the [friendly-tnsvue organization](#) the separate [nsvue-colors](#) repository remains under [guesant](#).

- Browser and Application Tooling: [Migrando uma SPA Vue.js para Nativescript | Vue.JS para {N} #01](#).

gir-js

An unfinished investigation into using GObject introspection metadata to expose native libraries to JavaScript runtimes through FFI and generate TypeScript-facing information from typelib data.

Unispec

An archived research and proof of concept around declaring contracts once and deriving tooling for ecosystems such as NestJS, GraphQL, OpenAPI, Swagger and QuickType.

Ya Time Marker

A 2021 Ionic and React PWA for marking and searching time records while keeping the user's history on the device, with import, export and deletion under the user's control.

outro-bun

A one-off Bun and TypeScript tool that turned a graduation-song spreadsheet export into an automated download and media-processing workflow using yt-dlp and FFmpeg.

- Automation and Tooling: [COMO EU FIZ PARA BAIXAR VÁRIOS ÁUDIOS DE UMA PLANILHA com o BUN | yt-dlp; ffmpeg; bun js](#).

nota-filler

An old demonstrator for programmatically filling a school-grade sheet or template, published with a web demo and a JipaCoding walkthrough.

alset-alloc

A C# and WPF rental-management desktop system built as a team project for completion of IFRO's technical program in informatics.

Cases

Central de Vagas em Creches

I worked as a scholarship developer on the team behind a public-sector platform for childcare applications, service workflows and waiting-list management. The software was registered with INPI under process BR 51 2025 006383-0; the [official INPI database](#) provides the public lookup for the registration. It became one of my first sustained experiences with software that reached production and continued demanding support after deployment.

IFRO Ji-Paraná Schedules

I built a tool that turned the campus's weekly schedule PDFs into information students could browse by class and teacher. What began as a cropping shortcut later became structured data, a separate interface and eventually a bridge into the harder problem of generating and managing academic schedules.

SIPEC

I worked full stack on an institutional surveys platform where users could create projects, assemble forms and collect responses under different access modes.

SISGHA / Ladesa: Academic Management and Scheduling

I came to SISGHA after building a personal viewer for already-published schedules and realizing that displaying a timetable was only the end of a much larger scheduling problem. My contributions crossed early academic CRUD and UI, generator rules, infrastructure and cluster maintenance, and later application, domain and platform work.

Fishing Booking

I joined an existing PHP product during a team transition and helped keep the system moving while ownership was changing.

Fugiwara Advogados

I implemented the first version of the firm's institutional website as a custom WordPress theme, with structured content managed through Secure Custom Fields.

ava-pro: Moodle Inside a Browser Extension

AVA Pro grew from my web-scraping experiments into a browser extension that interacted with Moodle as an authenticated application, including courses, search and pinning, login flows, chats and background checks for new messages.

Scrap Rain: Multi-Source Product Catalog Scraping

I built Scrap Rain for a freelance job that collected product catalogs from four furniture websites and turned different page structures into data that could be persisted and updated incrementally.

Experiments

WebExtension RPC Between Page and Content Script

Jan 2023

Collaborative Manifest V3 proof of concept for exposing request-and-response communication between page code and a browser extension content script through `window.postMessage`. The merged [PR #3](#), from [change-usage-api](#), redesigned the message API and closed [issue #1](#).

Clock-Hand Angles in C#

Jan 2022

A small C# algorithm exercise for calculating both arcs formed by the hands of a 12-hour clock while accounting for continuous hour-hand movement.

Education

IFRO, Instituto Federal de Educação, Ciência e Tecnologia de Rondônia
Integrated Technical High School in Information Technology

Ji-Paraná,

*Rondônia,
Brazil
2021 – 2023*

Skills

Technologies: PHP, Symfony, JavaScript, TypeScript, Node.js, NestJS, React, Next.js, React Native, Expo, PostgreSQL, Docker, Docker Swarm, GitLab CI, WordPress, Figma, Cypress, SonarQube, Keycloak, GraphQL, Azure

Certifications

- Bootstrap 4
- Front/Back End & UX/UI Design
- JavaScript and jQuery
- Complete JavaScript ES6
- Complete Web Design

Languages

- English, Professional Working