Mateus Felipe Gonçalves

Full-Stack Developer

Professional Experience

BrSuper Internet, Pará de Minas, MG, Brazil

Internet service provider with over 60,000 subscribers.

Project Analyst 10/2026 - *Present*

AI SDK OpenAI Nest.js Redis SSE

- Created BrTools AI, an AI agent built into the platform and now used across the whole company. From the chat, teams open and schedule work orders in the ERP, handle GLPI tickets and diagnose customer connections over TR-069, with lookups in Zabbix and the internal wiki
- Each module and integration declares its own tools, which the AI core discovers through NestJS and limits to each user's permissions. Actions that change data ask for confirmation before they run

Full-Stack Developer 12/2024 - 10/2026

TypeScript Node.js Nest.js React REST APIs, OpenAPI PostgreSQL Redis BullMQ DDD, CQRS, Clean Architecture Docker Github Actions (CI/CD) OpenTelemetry Grafana

- Built and maintain the internal platform adopted by ~200 users (Support/Call Center, NOC, Operations, Sales and Field), which standardized processes and added end-to-end traceability
- Defined the architecture: modular NestJS with DDD, Clean Architecture and CQRS, multi-tenant with an isolated stack per customer (its own application, database, Redis, proxy and Grafana) and pluggable modules enabled per installation, 15 of them in production today
- Automated provisioning on network equipment with one driver per vendor, talking Telnet over SOCKS proxies to the OLTs. Procedures that took 1 h now take 5 min
- Modeled and built the fleet management domain, from vehicles to the fuel financial cycle, with document issuing, an approval chain and reconciliation at closing
- Integrated the platform with the company's ERP, over REST and direct database access, covering customers, contracts, invoices and work orders, plus the third-party services that only deliver events by webhook
- Built the conversational engine for the operations bot, with a custom state machine for the flows and each conversation's session in Redis, which brought platform operations into the chat
- Led the production switch of the relational database from MariaDB to PostgreSQL with no downtime: both generations of the API served traffic for the entire transition
- Packaged the OpenTelemetry instrumentation into a reusable package and provisioned Grafana dashboards as code, with traces, metrics and logs separated by customer
- Ran discovery for the platform with the five areas it serves: gathered each one's pain points, wrote the spec for each feature and prioritized the roadmap from those conversations

Technical Support 06/2024 - 12/2024

Technical Support Networking Fiber Optics Zabbix GrayLog

- Gave customers technical support with internet connection problems over fiber optics and radio.
- Set up log and network monitoring with Graylog and Zabbix

Freelancer, Pará de Minas, MG, Brazil

IT and software development services.

Full-Stack Developer 06/2024 - *Present*

TypeScript React Next.js Node.js Nest.js Prisma Python Django JWT Google OAuth2 Docker

- Implemented RESTful APIs with Nest.js and Prisma.
- Developed responsive web interfaces with React, Next.js, TypeScript and Tailwind CSS
- Developed Python back ends with Django and Django REST Framework.
- Built full-stack applications for clients in partnership with another developer.

IT Technician 01/2018 - 01/2024

Technical Support Hardware Maintenance Windows, Linux TeamViewer

- Did corrective and preventive hardware and software maintenance on computers and networks, on site and through TeamViewer

Links & Contact

Portfolio mateusf.com
LinkedIn /in/mateusfg
Github /mateusfg7
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Hard Skills

Languages:
- TypeScript, JavaScript
- Rust, Python, SQL

Back-End Development:
- Node.js, Nest.js
- REST APIs, OpenAPI/Swagger
- ORM
- BullMQ (Redis queues)
- JWT, OAuth2, RBAC
- Webhooks, WebSockets

Front-End Development:
- React.js, Next.js
- TanStack Query, Router
- Tailwind CSS

Databases:
- PostgreSQL
- Redis
- MySQL, MariaDB
- MongoDB

Architecture & Quality:
- DDD, CQRS, Clean Architecture
- Modular monolith, Monorepo
- Asynchronous processing
- Vitest, Jest, Testing Library
- Git, GitHub, Code Review

Observability:
- OpenTelemetry, OTLP Collector
- Grafana, Prometheus
- Loki, Tempo
- Zabbix

Infra & DevOps:
- Docker, Compose, multi-stage
- AWS, Cloudflare, Vercel
- Github Actions (CI/CD)
- Blue/green deployment
- Nginx, Traefik
- Linux (desktop and server)

Spoken Languages:
- Portuguese (Native)
- English (Intermediate)

Education

Degree in Information Technology Management

FAPAM (2024-2026)

Instituto Mix de Profissões, Pará de Minas, MG, Brazil
Network of vocational course and undergraduate schools

Computer Teacher - Outsourced 06/2023 - 08/2024

Teaching Technical Support Assembly and Maintenance

- Taught hands-on computer assembly and maintenance classes in the vocational course, with live diagnosis and repair demonstrations

Computer Teacher 08/2023 - 06/2024

Python React.js Teaching Technical Support

- Taught Basic Computing and Microsoft Office, adapting the content to different skill levels and special needs
- Wrote Python scripts and small web applications to automate the school's internal tasks

Computer Lab Assistant 05/2023 - 08/2023

Teaching Teaching Support Assembly and Maintenance

- Gave one-on-one teaching and technical support to students with questions about the content, helping them use software and equipment

Projects

BrTools

Internal operations platform for an internet service provider, used by ~200 people in Support, NOC, Operations, Sales and Field. TypeScript monorepo with a NestJS API on PostgreSQL and Redis, a React 19 SPA and an isolated stack per customer, from the database to the proxy, with end-to-end observability.

brtools.net

Nest.js React.js TypeScript Rust PostgreSQL BullMQ OpenTelemetry

NetKeeper

Automated configuration backup platform for ISP network equipment. It schedules and runs collection over SSH or Telnet and versions the files in S3. There are three separate processes, a Nest.js API, a Python worker and a React SPA, with a queue at the boundary between them. Credentials are encrypted at rest, in a format both runtimes can read.

netkeeper.app

Nest.js React.js TypeScript PostgreSQL BullMQ Python AWS EC2 S3

Altrua

Volunteering web platform where NGOs publish events and volunteers sign up. Capstone project at FAPAM, built by a team of two: I was responsible for the technical foundation, the CI and the entire front end, and contributed to the Java back end with Spring Boot.

altrua.mateusf.com github.com/mateusfg7/altrua

React.js TypeScript Tailwind CSS Java Spring Boot PostgreSQL

Noisekun

Website for listening to combinations of ambient sounds, to relax or get more done. It also has themes and a pomodoro timer. Open source project with 280+ GitHub stars and community contributions.

noisekun.com github.com/mateusfg7/noisekun

React.js Next.js TypeScript Tailwind CSS Zustand PWA

ASCII Tools

Collection of text utilities: word case conversion (uppercase, lowercase, sentence case...), list sorting, hash generation, duplicate word removal and more.

asciitools.com

React.js Next.js TypeScript Tailwind CSS Zustand Shadcn/UI

Check DNS Block

Desktop app that checks whether domains or IPs are blocked on a DNS server by comparing its answers with those of a reference DNS. Resolution runs in Rust, with Tauri 2, Tokio and hickory-resolver, and the interface in React. It has installers for Windows, macOS and Linux, including Flatpak.

github.com/mateusfg7/check-dns-block

Rust Tauri React.js TypeScript Tokio DNS