

Francisco Gasperini

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PROFESSIONAL SUMMARY

Brazilian full-stack developer and data analyst, with a technical diploma in Software Development from SENAI and currently pursuing a degree in Information Technology Management at IFSC. I work with **TypeScript, React, Node.js and PostgreSQL**, covering the full cycle: data modeling, application, automated testing and deployment. I am currently with the Quality department at Instituto Santé (Bewiki Care), where I automated the weekly consolidation of patient safety indicators, a routine that now runs with no manual intervention. I document architecture and processes so that operations never depend on a single person. I am looking for a development or data role where I can contribute to production systems and keep growing technically alongside the team.

PROFESSIONAL EXPERIENCE

Instituto Santé · Bewiki Care

Data Analyst, Internship · Quality & Patient Safety Department

Aug 2026 – Present

Florianópolis, Brazil

- Audit quality and patient safety records, flag inconsistencies and consolidate the KPIs tracked by management.
- Automated the weekly routine that consolidates and delivers these indicators, now running unattended, with batch processing, failure handling, API quota control and automated tests.
- Integrated large language models into the triage of inconsistent records, with mandatory human validation before any decision.
- Documented the architecture and wrote the operations manual, handing the routine over to the department team.

Federal Institute of Santa Catarina (IFSC)

Funded Research Fellow · Organizing Committee, National Science & Technology Week 2025

Sep 2025 – Dec 2025

- Supported the coordination of Brazil's National Science & Technology Week, covering activity planning, schedule management and registration control.
- Built the event's interactive web map, used by attendees to locate activities across the campus.
- Liaised with internal teams, allocated resources and tracked deliverables.

EDUCATION

Bachelor of Applied Science in Information Technology Management

Federal Institute of Santa Catarina (IFSC) · Florianópolis, Brazil · 2,200h applied undergraduate degree · 4th of 6 terms · expected graduation Dec 2027

2025 – Present

Development (320h): Programming Logic · Object-Oriented Programming · Web Programming I & II · Software Development Processes

Data (120h): Databases · Business Statistics · Human-Computer Interaction

IT Management (240h): Project Management · IT Strategy & Planning · Process Modeling · Knowledge Management · Decision Making

Infrastructure (240h): Network Infrastructure & Management · Network Operating Systems · Infrastructure Virtualization

Upcoming: Data Science (80h) · ICT Governance · Information Security · Knowledge Modeling · Capstone Thesis

Technical Diploma in Software Development (concurrent with High School Diploma)

2022 – 2024

SENAI/SC · Florianópolis, Brazil · 1,112h of technical training

Development (440h): Programming Logic · Systems Development · Application Programming

Software Engineering (180h): Systems Modeling · Software Testing · Deployment & Maintenance

Data & Fundamentals (260h): Databases · Computational Logic · IT Fundamentals

Infrastructure (160h): Computer Networking Fundamentals · Internet of Things · Applied Electronics

PROJECTS

Lexiona

lexiona.org

Full-Stack

2026

In production

Solo project

Lesson planning platform for teachers. The calendar is the product: classes are generated from each course's timetable by a SQL function that walks the academic term and skips holidays, including movable ones computed with Meeus' algorithm. Every class carries a versioned lesson plan, attendance and history. **Five AI agents** (syllabus parsing from PDF, DOCX, image or audio; generation of up to 60 lesson plans per request; alternative ideas; chat with memory; replanning) receive the course's actual history as context rather than a generic prompt.

No application server: the browser talks directly to Postgres through PostgREST, and isolation between teachers is enforced by Row Level Security rather than by the UI; the service key exists only inside Edge Functions. AI jobs are resumable — they persist progress and pause when the execution budget runs out, with updates pushed over Realtime instead of polling. Per-operation quotas, installable PWA and accessibility built into the structure: theming, high contrast, density, text scaling from 80% to 160% and full keyboard navigation. **22 versioned migrations, 242 frontend tests and 64 schema and RLS assertions** running in CI, plus query plan benchmarking of the 13 critical RPCs.

React 18 TypeScript Vite TailwindCSS TanStack Query PostgreSQL Row Level Security Supabase Edge Functions (Deno) Realtime Groq Llama 3.3 Whisper v3 Vitest PWA Vercel

Lorekeeper

lorekeeperrpg.vercel.app github.com/gasperinifr/lorekeeper

Full-Stack

2026

In production

Solo project

End-to-end platform for running tabletop RPG campaigns: characters, NPCs, locations, items, events and narrative all in one system. Features AI content generation with **automatic model failover** when a provider fails or hits its quota, an interactive relationship graph between entities, real-time chat, an event timeline and D&D 5e content import via 5etools. Custom Fastify API with JWT authentication, S3 media uploads and containerized deployment.

React TypeScript Node.js Fastify PostgreSQL Supabase JWT AWS S3 Docker Fly.io

CSVision

csvisionboard.vercel.app github.com/gasperinifr/csvision

Full-Stack

2026

In production

Solo project

AI-powered platform for analyzing and visualizing CSV files. Users drag and drop a spreadsheet, an LLM (Groq) semantically identifies the role of each column, and the app builds interactive dashboards with customizable charts. **RFC 4180 parser written from scratch in TypeScript**, with all processing done in the browser; only metadata reaches the server, so the user's spreadsheet never leaves their machine.

Next.js 14 TypeScript Supabase Groq API Recharts Vercel

DPPE Dashboards · IFSC Florianópolis

github.com/gasperinifr/dppe2025

Full-Stack

2026

Commissioned by department

System that automatically generates dashboards from the CSV spreadsheets of the DPPE department at IFSC's Florianópolis campus, built at the department's request. It replaces the manual chart-building done for every new file, with PL/pgSQL functions in Postgres and a React presentation layer.

React TypeScript Vite TailwindCSS Supabase PostgreSQL PL/pgSQL

EcoPraia

github.com/leiticiasf/EcoPraia

Web

2024

Team project

Web application built by a team to raise awareness about waste collection on the beaches of Florianópolis, Brazil. Problem-based learning project for the Technical Diploma in Software Development.

HTML CSS JavaScript

SKILLS & COMPETENCIES

- Languages:** TypeScript · JavaScript · Python · SQL
- Frontend:** React · Next.js · Vite · TailwindCSS
- Backend:** Node.js · Fastify · Deno · FastAPI (Python)
- Databases:** PostgreSQL · Supabase · MySQL · data modeling
- Postgres:** RLS · RPCs · versioned migrations
- Applied AI:** LLMs (Groq, Gemini) · Whisper · vision
- AI in production:** quotas, failover and resumable jobs
- DevOps:** Git · CI/CD · Docker · Vercel · Fly.io · AWS S3
- Data analysis:** Advanced Excel · KPIs · dashboards
- Automation:** Google Apps Script · Workspace APIs
- Healthcare:** Tasy HIS · quality & patient safety KPIs
- Testing:** Vitest · Testing Library · schema testing
- Accessibility:** WCAG · PWA · UI/UX · Figma
- Documentation:** technical and end-user
- Management:** projects, stakeholder requests and cross-team communication
- Language:** English C1 · fluent technical reading & communication

CERTIFICATIONS

TOEIC Bridge · Listening & Reading

ETS Global · May 2024

93/100

Introduction to Cybersecurity

CISCO Networking Academy · 2023

Python Essentials 1

CISCO Networking Academy · 2023

UX/UI Design Short Course

Cubos Academy · 2023

LANGUAGES

Portuguese

Native

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English

Advanced (C1) · TOEIC 93/100

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