

Guilherme Alves

Full Stack Developer

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Skills

- Python | TypeScript | JavaScript | SQL | C++
- Flask | Requests | FastAPI | API RESTful | Pandas
- Node | React | React Native | React Router | jQuery | Redux | React Testing Library | Figma UX/UI | HTML5 | CSS3 | StyledComponents, Bootstrap5
- Git | GitHub | Linux | Docker | Postman | Dremio | MySQL | PostgreSQL
- AI Agentes | Ollama | Llama | Codex | Claude
- Oracle Cloud | Render | Netlify

Experience

SIMAPES & GECAP (Ministry of Health Brazil)

Mid Level Software Engineer - Remote

Brasília, Brazil

12/2023 - Current

- Developed and supported a Quantitative Chatbot application that leveraged AI models to extract entities from user input and execute dynamic SQL queries, delivering data for analytical dashboards.
- Contributed to the Back-end architecture and development using Python (Flask/Pandas) for API construction and data manipulation.
- Collaborated on the implementation and integration of the AI Pipeline, which utilized Ollama and Rasa models for entity extraction and execution of dynamic SQL queries.
- Led the Front-end development for various applications and data visualization dashboards, dynamic templates, (UI).
- Implemented CI/CD with GitHub Actions for automated deployment, ensuring continuous delivery (Scrum/Kanban).
- Contributed to the structuring and consumption of data from the Dremio Data Lake.

GRUPO F8

Engenheiro de Software Pleno - Híbrido

Goiás, Brazil

01/2026 – 07/2026

- Worked within an "AI-First" development methodology, integrating AI throughout the engineering lifecycle, executed incrementally via sprints within a Microsoft Teams environment.
- Developed an Identity and Access Management (IAM) hub using Next.js and Django, centralizing authentication and authorization for the company's applications. Implemented and validated security mechanisms—including JWT, hashing, SHA-256, RS256, and Microsoft Azure Key Vault—alongside RBAC and ABAC authorization models for granular access control.
- Developed an intelligence platform for public lighting, consolidating georeferenced data on utility poles and light fixtures—such as location, power capacity, roadway characteristics, energy consumption, and projected savings resulting from lighting modernization.
- Contributed to the development of two field operations applications: an Ionic-based app for executing service orders (triggered by user requests) and a React Native-based app for carrying out company-planned projects.

- Implemented "offline-first" strategies, asynchronous synchronization, and idempotent data operations within the Ionic application, ensuring that technicians could continue their work even in areas with limited connectivity.

SECPLAM – UFG Office of Planning, Evaluation and Institutional Information

Technical support | Junior Back-end - Hybrid

Goiás, Brazil

09/2022 - 02/2024

- Career transition role, focusing on optimizing administrative and technical support processes.
- Creation of Web Automation Bots using Python (Selenium) to perform critical manual tasks within the Sipep system.
- Implemented Decision Algorithms in scripts, resulting in measurable gains in speed and precision for autonomous task execution.
- Provided comprehensive Technical Support (call management) and produced educational content (videos/After Effects).

Dox Garden

Intern Administrative / Financial Analyst – In person

Goiás, Brazil

10/2021 - 05/2022

- Responsible for accounting entries and managing expenses/revenue, providing accurate records for the Controllershship department.
- Developed and maintained advanced Excel spreadsheets for KPI tracking and analytical support for management decision-making.
- Provided operational management support, including client service and formalizing contracts, ensuring compliance and documentation organization.

Personal Project

Strangers TV

Social interaction Android app

Remote, Brazil

10/2025 - Atual

- Full-stack development of real-time video calls, live streams, global chat, and private messaging between friends. I began the project by writing the code manually, and from an advanced stage onward, I incorporated artificial intelligence as a tool to support the development process.
- Implementation of authentication via Google OAuth and JWT, custom profiles, blocking, reporting, and temporary bans.
- Creation of monetization features, including premium subscriptions, coin purchases, rewarded ads, and the sending of virtual gifts.
- Development of REST APIs and communication via WebSockets, with data persistence in PostgreSQL and migrations for database evolution.
- Infrastructure setup on Oracle Cloud, using Docker, Nginx, HTTPS/WSS, and automated deployment via GitHub Actions.



Avyra Coin

Mobile Application for Crypto Analysis with LLM

Goiás, Brazil

12/2024 - 06/2025

- Developed a Full Stack Mobile Android application (React Native/Redux) for crypto tracking, integrated with the Coingecko API.
- Integrated a Large Language Model (Google Gemma 3 27B) for analyzing prompts and generating quantitative market insights.
- Built the API Back-end using Python (Flask) with a modular architecture and implemented automated deployment via GitHub Actions.
- Monetization Strategy: Implemented dual monetization through Google AdMob and In-App Purchase (IAP), adhering to Google Play Store policies.
- UX Features: Translation (i18next), currency conversion (BRL/USD), and interactive chart plotting.



Education

Bachelor's degree in Software Engineering – UNOPAR 2023 - 2026

Bachelor of Science in Economics – UFG 2019 - 2024

Certificates

SQL from Basic to Advanced (With MySQL Projects) – Udemy

JavaScript from Basic to Advanced (With a Node.js Project) – Udemy

Introduction to Cybersecurity – Cisco Networking Academy

Getting Started with Cisco Packet Tracer – Cisco Networking Academy

Oracle Cloud Infrastructure Certified Foundations Associate 2026 – Oracle

Fundamentals of the Python Language for Data Analysis and Data Science – Data Science Academy

Introduction to the R Programming Language – UFG

Applied AI Foundations - OpenAI Academy

AI Foundations - OpenAI Academy

About me

A professional with a solid analytical foundation in Data Science.

I am interested in pursuing further certifications—such as those from Oracle or OpenAI—and deepening my knowledge of High-Performance Computing using C++. In my spare time, I enjoy tinkering with electronics and cycling. I have an advanced command of English and am currently learning Mandarin. I hold a driver's license (categories A and B) and have my own vehicle.