

Guilherme Augusto Deitos Alves

Fullstack Developer

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Summary

Fullstack developer experienced in business applications and data platforms using TypeScript, React, Node.js and Python/FastAPI. I develop products at Controle Sistemas and serve as a scholarship-funded technical lead at UNIOESTE. My experience covers requirements, architecture, interfaces, APIs, data processing, tests and continuous delivery.

Recent experience

UNIOESTE

Cascavel, Brazil

SAD-UEPR Technical Lead - research scholarship

May 2026 - present

- Provide technical leadership for a scholarship team through code review, mentoring, development standards and delivery organization.
- Lead SAD-UEPR's evolution from my undergraduate thesis into an official UNIOESTE project, with a modular FastAPI monolith and React/Vite frontend. Coordinate integration of financial and educational domains with the team.
- Work with INEP Census ETL using Polars/Parquet and SQLite/SQLAlchemy persistence, guided ingestion and data validation. Delivery uses Docker, GitHub Actions and Pytest, Vitest and Playwright tests.

Controle Sistemas

Cascavel, Brazil

Junior Fullstack Developer

Aug 2025 - present

- Developed AstroDelivery end to end as its sole developer: requirements, architecture, frontend, backend and documentation, with deliverables validated by the company supervisor.
- Built Next.js/React storefront and dashboards and Node.js/TypeScript services with Express and Prisma, using PostgreSQL, Redis and RabbitMQ for catalog, orders and integrations.
- Implemented server-side order calculation rules, order information history and fulfillment updates through SSE.
- Also develop CRM features and integrations with Bun/Elysia, Drizzle and React/Next.js, including Google Calendar. This stack belongs to the CRM, a separate product from AstroDelivery.

Controle Sistemas

Cascavel, Brazil

Fullstack Developer

Apr - Sep 2022

- Developed React/MUI interfaces and Node.js/Express APIs using TypeScript and MySQL.
- Worked on integration between interfaces, services and persistence in business applications.

Selected projects

AstroDelivery: professional restaurant ordering and management platform; end-to-end development. Case study.

SAD-UEPR: institutional financial and INEP Census data platform; thesis authorship and technical leadership. Case study.

UNIMET: historical weather queries and temporal aggregation for science and agriculture. Case study.

Research and teaching

Algorithms Research Group

UNIOESTE

Research Collaborator

2023 - 2026

- Worked on data analysis, processing and visualization under the supervision of Prof. Adriana Postal, Ph.D., with 970 accumulated research hours.
- Developed UNIMET with Node.js/Express, TypeScript and React/MUI to automate historical INMET queries and process data at hourly, daily, weekly and monthly frequencies using variable-specific rules.

PETCOMP

UNIOESTE

Member and Teaching Coordinator

2023 - 2025

- Organized two Node.js bootcamps, a Pandas short course and technical community activities.
- Participated in event organization and teaching material production. Presentations and materials.

Education

Western Paraná State University

UNIOESTE

M.Sc. in Computer Science - in progress

2026 - 2027 (expected)

- Research in software architecture and integration of financial and academic data, including event-driven architectures.

Western Paraná State University

UNIOESTE

B.Sc. in Computer Science - completed

2022 - 2026

- Thesis: SAD-UEPR, with Python collection and extraction, multithreading, monetary adjustment and a React/Vite interface using SSE to track processing. Tests with Pytest and automation with Docker/GitHub Actions.

Federal Institute of Paraná - Cascavel Campus

IFPR

Technical Diploma in IT, integrated with secondary education

2019 - 2021

Skills

- **Languages and runtimes:** TypeScript, JavaScript, Python, Node.js and Bun.
- **Frontend:** React, Next.js, Vite, Tailwind CSS, shadcn/ui, Zustand, TanStack Query, MUI and Styled-components.
- **Backend, data and communication:** Express, FastAPI, Elysia, PostgreSQL, MySQL, SQLite, SQLAlchemy, Polars/Parquet, Prisma, Drizzle, Redis, RabbitMQ, REST APIs and SSE.
- **Architecture and delivery:** Clean Architecture, DDD, event-driven architecture, Docker, GitHub Actions, Pytest, Vitest and Playwright. Code review, mentoring and documentation demonstrated through experience.
- **Languages:** Native Portuguese; intermediate English for reading and writing.