

Marcelo Vasconcelos

Full-Stack Developer | Applied AI & Business Automation

Brazil | Available for remote work | marcelonutrimed@gmail.com | +5585997461910

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PROFILE

Full-stack developer building applications, applied AI workflows and deployment infrastructure. Combines hands-on engineering with more than 15 years in business operations. Americas MBA jointly awarded by **Vanderbilt University** and partner institutions. Fluent English; available for remote work with US-based teams.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, PHP, SQL, HTML, CSS

Applications: FastAPI, React, Next.js, NestJS, Fastify, Vue 3, Laravel

Data: PostgreSQL, Prisma, Drizzle, Redis, BullMQ

Infrastructure: Docker, Linux VPS, Fly.io, Caddy/TLS, health checks, backups and recovery

Delivery: Git, GitHub Actions, CI/CD test gates, staging and production workflows

Applied AI: LLM/VLM integration, provider routing/fallbacks, document extraction, transcription

AI harnesses: Codex, OpenCode, Hermes; Markdown specs, scoped agent instructions and review

Engineering: REST APIs, OAuth, RBAC, WebSocket, Vitest, Playwright

ENGINEERING EXPERIENCE

App Crédito | Partner and CTO

March 2026 - Present | Brazil

- Built and deployed a production credit platform supporting approximately US\$600K in monthly loan originations (US\$7.2M annualized), using Python/FastAPI, React and PostgreSQL for simulations, contract issuance, portfolio operations and reconciliation.
- Integrated Guardian banking APIs and RDStation CRM with OAuth refresh, retry handling and workflow polling.
- Implemented AI document classification and structured field extraction using vision-language models, confidence thresholds, validation and human review.
- Deployed on Fly.io with Docker, managed PostgreSQL, separate web/worker processes, readiness checks and encrypted backups; organized GitHub Actions test gates and staging/production workflows.

Chat App Crédito | Communications application

Selected project | TypeScript, Fastify, Vue 3, PostgreSQL, Redis, BullMQ

- Built customer-service and campaign workflows with WhatsApp integration, background workers and real-time WebSocket updates.
- Integrated local audio transcription and AI-assisted conversation evaluation and reporting, alongside voice and SMS workflows.
- Deployed the stack on a Linux VPS with Caddy/TLS, PostgreSQL and Redis containers, systemd services and GitHub Actions CI/CD; preserved encrypted sessions across releases.

SELECTED PROJECTS

DEZIA | Lending product MVP

TypeScript, Next.js, NestJS, Prisma, Zod, SQLite, Vitest, Playwright

- Built a public website, simulation and pre-application flow, administrative lead workflows and customer portal in a TypeScript monorepo.
- Implemented shared contracts, idempotent submissions, one-time-code access and auditable operator actions. Delivered as an MVP with commercial launch requirements documented separately.

DEZ Clinic Management System

PHP, Laravel, PostgreSQL, TypeScript, React, Vite

- Built APIs and interfaces for clinic catalogs, appointments, team administration and audit history, with role-based access.
- Implemented legacy catalog import and reconciliation, idempotent appointment booking and separate workflows for internal configuration and public availability.

Clínica DEZ | Public website

HTML, CSS, JavaScript, Node.js | www.clinicadez.com.br

- Built the responsive website and static-generation pipeline for service discovery, patient guidance and online or WhatsApp booking paths.
- Implemented reusable page templates, search metadata, structured content and analytics configuration.

ADDITIONAL BUSINESS EXPERIENCE

Nvtro Industrial | Executive Director

June 2023 - Present

Lead strategy and operations across product development, manufacturing, procurement and commercial activities.

Clínica DEZ | Founder

January 2015 - Present

Founded the clinic and translate patient-service and operational requirements into its website and management software.

Earlier: Founder, Biomed (2013-2026); Angel Investor, Autotrend (2020-2022); Business Manager, Nutrimed Industrial (2010-2013).

EDUCATION

Americas MBA | 2013-2015

Vanderbilt University - Owen Graduate School of Management

Jointly awarded by **Vanderbilt University**, FIA Business School, Simon Fraser University - Beedie School of Business, and Instituto Tecnológico Autónomo de México (ITAM).

Bachelor of Laws | Universidade de Brasília | 2005-2009

Languages: Portuguese (native); English (fluent).