

# MATHEUS BARBOSA

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Full-Stack Software Engineer with experience building scalable SaaS platforms, AI automation systems, real-time applications and enterprise internal tools. Strong ownership mindset with end-to-end delivery across frontend, backend, cloud infrastructure and product strategy.

## Skills

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- **Frontend:** React, Next.js, Vite, Angular, TypeScript, JavaScript, Tailwind CSS, HTML5/CSS3, React Native, Expo, Ionic
- **Backend:** Node.js, Laravel (PHP), Python, REST APIs, GraphQL, WebSockets, Unit & Integration Testing, CI/CD, Docker, GCP, AWS, Vercel
- **Cloud / DevOps / AI:** PostgreSQL, MySQL, Redis, Drizzle ORM, Prisma, OpenAI, LangChain, AI Agents, RAG Pipelines, WhatsApp API.
- End-to-end Product Engineering, Full-Stack, Micro services-aware, Portuguese (Native), English (Fluent), Spanish (Basic)

## Experience

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### Independent Practice

#### Full Stack Developer & AI Engineer

2024 - Current

- **Live Auction Application for an Evening Event:** Designed and delivered a real-time auction platform for a football club anniversary event using Next.js, Node.js, WebSockets and PostgreSQL. Implemented concurrent live bidding with transactional row locks, secure authentication, payment processing (Stripe) and a live organizer dashboard — event ran with zero downtime at peak load.
- **AI Automation:** Built AI-powered WhatsApp automation products for local businesses using OpenAI, LangChain and the WhatsApp Business API, covering natural-language customer service, lead qualification, appointment scheduling and sales follow-up — freeing hours of manual work per week per client.
- **Websites and Landing Pages:** Ship complete marketing sites and product landing pages with rich scroll and motion animations, transactional and contact email-API integrations, Microsoft Clarity and Google Analytics for behavior tracking, CRM-connected lead capture forms, and full admin panels for content, media and database management — all built in compliance with Brazilian LGPD data-protection laws (consent flows, cookie management, audit trails and data-subject request handling).

### NGTec Soluções em Tecnologia

#### Full Stack Developer — Occupational Safety SaaS (SST)

2019 - 2024

- Architected and delivered a comprehensive occupational health & safety platform used by multiple companies across Brazil, with full e-Social government integration (events S-2210, S-2220 and S-2240) via SOAP/XML — eliminating manual government reporting and ensuring legal compliance with Brazilian CLT regulations.
- Built medical exam management (ASO — admission, periodical, dismissal, return-to-work), CIPA workflows (elections, members, meetings, action plans), risk programs (PGR and PCMSO) with document generation, PPE control with digital acknowledgment signatures and workplace incident reporting (CAT) with automatic e-Social submission.
- Shipped real-time compliance dashboards with expiring exam alerts and regulatory deadline tracking, and the full employee lifecycle (admissions, transfers, terminations).
- Tech: Laravel, Angular, MySQL, REST APIs, SOAP/XML integration. System still in production today.

#### Full Stack Developer — Online Learning & E-commerce

2021 - 2024

- Built a complete Learning Management System with video streaming, progress tracking, quizzes, certificates of completion and a student/admin panel, plus an integrated e-commerce layer with Brazilian payment methods, using PagSeguro API (PIX, credit card, boleto) and subscription management.
- Monetized the company's training expertise and enabled cross-selling with the occupational safety ecosystem via unified authentication and shared data models.
- Tech: Laravel, Angular, MySQL, Payment Gateway APIs (PagSeguro), Video Streaming. Still operational.

#### Full Stack Developer — Homecare Enterprise System

2017 - 2019

- Built from scratch an end-to-end enterprise platform covering stock management with barcode scanning, full patient internment workflow (admission, caretaker and doctor scheduling, shift management, real-time tracking), medication tracking with timestamps and audit trails, a financial module (budget proposals, invoicing) and a companion mobile app for field staff. Delivered a 98% reduction in medication loss, saving thousands annually and fully digitizing previously manual processes.
- Tech: Angular (Typescript), Laravel (PHP), MySQL, Ionic (mobile), barcode scanning APIs.

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## Projects

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### Personal Projects and Others

- **A.T.L.A.S. Ecosystem (Personal AI Operating System):** Designed and built an integrated suite of personal productivity, finance, and portfolio tools powered by A.T.L.A.S., a context-aware AI assistant that unifies calendar, tasks, email, code repositories, and communication platforms into a single intelligent layer. Powers my portfolio's live AI chat through RAG over a curated knowledge base, automates daily planning and cross-platform workflows, manages investments with real-time market analysis and AI-driven recommendations, and centralizes work/home operations through synced calendars, Kanban boards, Git activity, notes, and file management.
- **Trimio (Working):** End-to-end scheduling platform for barber shops with integrated AI automation. Offers AI-assisted booking for customers (natural-language scheduling, confirmations and reminders) and a full management suite for shop owners covering appointment calendars, service and barber configuration, customer CRM, cash flow and performance metrics — designed to let small shops run their entire operation without paper agendas or manual WhatsApp back-and-forth.
- **Agendare (Working):** Appointment-scheduling platform for health clinics and solo practitioners (psychologists, physiotherapists, nutritionists and similar professionals) with AI automation for booking, confirmations, reminders and no-show reduction. Supports both multi-professional clinics and individual workers, with patient records, recurring sessions, integrated payments and customer-facing scheduling pages — purpose-built for the specific communication and compliance needs of health professionals.

## Client Partnership & Ownership

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- As an independent developer since 2024, I lead projects end-to-end—from discovery and architecture to delivery and post-launch support—working closely with clients through clear communication, regular updates, and milestone-based planning to deliver high-quality software on time.

## Education

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- B.Sc. Physics — UNIFEI (Universidade Federal de Itajubá), 2015 – 2021. Core studies: Classical Mechanics, Quantum Mechanics, Computational Physics, Electromagnetism, Problem Solving.
- B.Sc. Computer Science — UDESC (Universidade Estadual de Santa Catarina), 2014 – 2015. Core studies: Algorithms, Data Structures, Critical Thinking.
- Cultural Exchange Program — Cassville, Wisconsin, USA, 2012 (6 months). Full English immersion and international collaboration foundation.

## Interests

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- **Continuous Learning:** I love to build and learn. I'm deeply into AI, automation and productivity tooling, and I constantly ship side projects to test new technologies before bringing them into client work. Expect a curious product-minded engineer on your team.
- **Hobbies:** Daily chess on chess.com across bullet, blitz and rapid formats. Play soccer regularly (Brazilian, of course), and follow Formula 1 and American Football closely. Avid reader — technical deep dives, philosophy, history and science fiction — with a long-standing passion for comic books and sci-fi cinema.