

Matheus de Castro Pereira

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Professional Summary

Software Engineer with **2 years of practical and academic experience** in web development. Specialized in building Full-Stack solutions using React, Python (Flask), and relational databases (PostgreSQL), bridging responsive interfaces with robust backend architectures. Experienced in creating complete systems integrated with external APIs, automated PDF report generation, and optimizing medical processes, increasing efficiency by up to 30%.

Education

- **B.S. in Software Engineering:** Cruzeiro do Sul. 2024 – 2027.
- **English (Fluent):** Fisk. Sep/2021.

Certifications

- **Harvard CS50x** – edX / Harvard University (Mar/2025) | [Certificate](#)
- **MICHIGAN LANGUAGE ASSESSMENT** – University of Michigan (Sep/2021)
- **LPI Web Development Essentials Exam Study Guide** – Udemy (May/2025) | [Certificate](#)

Professional Experience

Academic Extension Project – AçaiLoop – Apr/2026 to May/2026

Full-Stack Developer

- **Developed** a B2B green logistics platform connecting producers, drivers, and brickyards for the sustainable reuse of waste (biomass).
- **Architected** the backend using Python (Flask) with Clean Architecture principles, ensuring separation between business rules, infrastructure, and RESTful API.
- **Implemented** a highly responsive Mobile First frontend with React and Tailwind CSS, creating access-controlled dashboards for 3 user profiles and a state machine system for real-time tracking.
- **Integrated** Supabase (BaaS) for relational database (PostgreSQL) and secure authentication, with automated deployment via Vercel (CI/CD).
- **Links:** <https://acailoop.vercel.app/> | github.com/MCTHIAS/acailoop
- **Tech Stack:** React, Tailwind CSS, Python, Flask, Supabase (PostgreSQL, Auth), Clean Architecture, Vercel, RESTful APIs.

Practical Infrastructure Project – Cloud Portfolio (AWS) – Nov/2025 to Jan/2026

Cloud Developer & Architect

- **Developed and deployed** a web portfolio, designed as a hands-on lab to apply concepts from the AWS Cloud Practitioner international certification preparation.
- **Designed** the architecture using AWS S3 for secure static hosting and CloudFront (CDN) to ensure high performance, security, and low-latency page loads.
- **Implemented** a CI/CD pipeline for full deployment automation, ensuring maintainable code practices where every new Git update is automatically published to production, eliminating manual intervention.
- **Link:** dzevpmz8iacy.cloudfront.net
- **Tech Stack:** AWS (S3, CloudFront), CI/CD, Git, Cloud Computing, HTML/CSS, JavaScript.

Academic Extension Project - GreenShelf – Aug/2025 to Dec/2025

Full-Stack Developer

- **Developed** a Full-Stack web application focused on reducing food waste in retail (aligned with UN SDG 12).
- **Translated** messy business processes into clean software systems by mapping workflows and gathering requirements directly with local supermarket owners to deeply understand their business rules.
- **Built** a comprehensive prototype featuring an inventory management dashboard for retailers and a dynamic offers showcase for consumers, utilizing a cloud-hosted architecture.
- **Repository:** github.com/MCTHIAS/GreenShelf
- **Tech Stack:** Python, Flask, PostgreSQL (Neon), HTML, CSS, JavaScript, Vercel Blob.

Freelance – Mar/2025 to Sep/2025

Web Developer

- **Flask Project - Patient Management:** Built an internal business software (Flask web application) integrated with Google Sheets/Forms APIs and a PostgreSQL (Neon) database to manage the workflow of referred patients.
- **Structured** the system by organizing the entire clinical lifecycle into stages (evaluation, authorization, procedure, and follow-up), ensuring synchronized CRUD operations and a responsive interface.
- **Successfully replaced** manual and Excel-based processes by centralizing data, which eliminated repetitive spreadsheet tasks, facilitated clinical monitoring, and increased medical operational efficiency by 30%.
- **Repository:** github.com/MCTHIAS/CathPed
- **Tech Stack:** Flask, Python, PostgreSQL (Neon), SQLAlchemy, Google API (Sheets/Forms), HTML, CSS, JavaScript.