

Matheus Daniel Cristal Comparotto Gomes

Full Stack Developer (B2-level)

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Freelance Developer since 2020, Programming Student since 2017

PROFESSIONAL EXPERIENCE

Intercultural Diversity Research Institute — Freelance Full Stack Developer

JULY 2023 - JUNE 2025

Development of an electronic dictionary for the Terena Indigenous language, which is at risk of extinction. The first phase of the project involved creating an API to register 1,268 terms provided by the institution. Next, a progressive web application (PWA) integrated with the API was developed, offering a simple and efficient search interface. Subsequently, mobile apps for Android and iOS were launched with offline functionality, allowing users to locally download audio files, an essential feature for communities without internet access. After the completion of the first phase, the project was expanded to become scalable. The new architecture now supports the creation of multiple dictionary instances, each dedicated to a different Indigenous language. Currently, in addition to the Terena language, the platform is being adapted to include six other endangered languages, with linguistic collections being developed based on field research in villages. This expansion has multiplied the impact of the original initiative, providing digital tools aimed at preserving and teaching various Brazilian Indigenous languages.

Technologies used: Express (NodeJS), MongoDB Atlas, ~~Mongoose~~ Mongoose-GridFS, Google Firebase Storage, React, React Native.

Click here to learn more: <https://kalivono.vercel.app/equipe>

1st Independent Subgroup of Military Firefighters — Freelance Full Stack Developer

MAY 2021 - MARCH 2022

Progressive web application for inspection, registration, and PDF report generation of fire trucks of the Aquidauana Fire Department - MS. It is noteworthy that the organization of reports provided by the application resulted in a positive readjustment for the corporation.

Technologies used: React, Express (NodeJS), MongoDB Atlas, React-pdf.

Urban Agroecological Farm Da Roça — Freelance Front-end Developer

AUGUST 2020 - MAY 2021

Prototyping and development of an online shopping application for an urban agroecological farm in the municipality of Aquidauana - MS.

Technologies used: Figma, React Native, RN Paper, Font Awesome.

Federal Institute of Mato Grosso do Sul — IT Intern

SEPTEMBER 2019 - DECEMBER 2019

Description: Application for evaluating school meals by students. The developed system used star ratings and generated a report of satisfaction metrics for each meal offered. In March 2020, the system became unfeasible due to the immediate suspension of school activities at the institute.

Technologies used: PHP, PostgreSQL.

EDUCATION

Federal Institute of Mato Grosso do Sul - Aquidauana Campus — Higher Course in Technology in Internet Systems

AUGUST 2021 - JUNE 2025

Federal Institute of Mato Grosso do Sul - Aquidauana Campus — Integrated Technical Course in Information Technology

FEBRUARY 2017 - JULY 2020

TECH STACK

Programming languages

JavaScript, TypeScript, Java

Front-end

React, React Native

Back-end

Express, Firebase, NodeJS, Spring Boot, Apache Kafka

DevOps

Docker, Git, GitHub Actions, Redis

Databases

MongoDB, Postgres, SQLite

Tests

Cypress.io, Jasmine, Jest, Postman

RELEVANT PROJECTS

Ai, que fome! — Academic project

AUGUST 2023 - OCTOBER 2023

School Meal Management Platform developed for Federal Institute of Mato Grosso do Sul - Aquidauana Campus by the 5th period of the Higher Course in Technology in Internet Systems as a requirement to obtain the partial grade for the activities of the curricular unit Programming Language IV.

Technologies used: Express (NodeJS), MongoDB Atlas, React.

Click here to learn more: <https://github.com/mdccg/ai-que-fome-showcase>

Development of an application for tracking IFMS graduates — Undergraduate Scientific Initiation Project

AUGUST 2021 - AUGUST 2022

An enterprise social network for graduates from all IFMS campuses. Its main objective is to collect course evaluations, offer job opportunities, and encourage graduates to continue at the institution through other courses or selection processes so that they can join the institution as collaborators.

Technologies used: Figma, React Native.

IFMS Aqi Comunica: Scrum — High School Scientific Initiation Project

AUGUST 2017 - AUGUST 2018

Event platform related to Federal Institute of Mato Grosso do Sul - Aquidauana Campus developed by a team of four students from the Integrated Technical Course in Informatics using the Scrum methodology. The teaching project was accredited for both FECIAQ (Aquidauana Science and Technology Fair) and FETECMS (Mato Grosso do Sul Technology, Engineering and Sciences Fair), considered the largest science fair in the Midwest region.

Technologies used: PostgreSQL, Java, Hibernate, Spring Boot, Thymeleaf, JavaScript.

Certifications or Licenses

CertiProf — Scrum Foundation Professional Certificate - SFPC™

Skills: Scrum.

FEBRACE — Methodology of Research and Guidance of Scientific Initiation Projects

Skills: Scientific research.