

Matheus Daniel Cristal Comparotto Gomes

Full Stack Developer (B2-level)

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Freelance Developer since 2020, Programming Student since 2017

EXPERIENCE

Intercultural Diversity Research Institute — Freelance Full Stack Developer

JULY 2024 - CURRENT

Expansion of the Kalivôno project (detailed in the next professional experience) to include seven indigenous languages at risk of extinction. After the success of the Kalivôno App, I was rehired to make the application scalable, enabling the creation of multiple dictionary instances, each dedicated to a different language. In addition to the Terena language, the Kalivôno project will now support six more indigenous languages, with collections being developed through field research in villages. This project multiplies the impact of the initial initiative, preserving and providing resources for teaching various indigenous languages.

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

Intercultural Diversity Research Institute — Freelance Full Stack Developer

JULY 2023 - OCTOBER 2023

Development of an electronic dictionary for the Terena language, an indigenous language at risk of extinction. Initially, an API was created to register 1,268 terms provided by the institution. Next, a progressive web application was developed to use the API, allowing efficient queries. Finally, an Android application was created with offline functionality, enabling users to download audio files to their devices. This feature is essential for villages without internet access, allowing students to learn Terena regardless of connectivity. Currently, the app is in use in indigenous villages, contributing to the preservation and teaching of the ancestral language to younger generations.

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

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

Fire Department — 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.

Click here to learn more: <https://github.com/mdccg/controle-de-viaturas>

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.

Click here to learn more: <https://figma.fun/oXmYEv>

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 - JULY 2024

Federal Institute of Mato Grosso do Sul - Aquidauana Campus — Integrated Technical Course in Information Technology
FEBRUARY 2017 - JULY 2020

Educational Institute Falcão — Elementary School
2009 - 2016

TECH STACK

Programming languages

Java, JavaScript, PHP, Python, TypeScript

Front-end

Angular, Expo, Figma, React, React Native

Back-end

Express, Firebase, NodeJS, Prisma

DevOps

Arduino, Cisco, Docker, Git, GitHub Actions, Redis, Vercel

Databases

MongoDB, MySQL, 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 Aqui 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

Udemy — Angular 2 (v17+) TypeScript From Beginner to Advanced Certificate

Skills: AngularJS, Angular Material, RxJS, SASS.

CertiProf — Scrum Foundation Professional Certificate - SFPC™

Skills: Scrum.

FEBRACE — Methodology of Research and Guidance of Scientific Initiation Projects

Skills: Scientific research.