

# Hugo A. Morais

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**Geo Portfolio**  
<https://geo-port-with-app.vercel.app/>

## Practical Experience

11/2023 – Present      **ASSOCIATION OF MELIPONICULTURISTS AND APICULTURISTS OF ARAXÁ**, Araxá, Brazil

*A local organization dedicated to the preservation, study, and raising of Brazil's native bees.*

Geoprocessing Analyst (Volunteer Work)

- Implementation of predictive models to assess environmental impact on the bee populations;
- Collection, organization, cleaning, and standardization of data from public and private sources, ensuring quality and accuracy of databases and geospatial data;
- Application of spatial analyses to identify and monitor critical areas for the conservation of stingless bees;

Achievements:

- 20% reduction in colony mortality due to intoxication from chemical products or pollution (such as UVB used to combat the dengue mosquito). The most benefited species were the borá bee, the iraiá bee, and the marmelada bee.
- Growth in meliponiculture activities in Araxá, with an average increase of 2 to 5 new people joining the activity each month.

09/2023 – Present      **Power of Data (remote)**, São Paulo, Brazil

*Development of software solutions that automate data analysis for various sectors, such as energy, public services, and banking.*

Front-End Developer Junior

- Development of a interface for a Decision Engine application, specializing in loan processes and optimization;
- Design and creation of an interface for a chatbot used in investigative operations by the Civil Police of Minas Gerais;
- Created a customizable application interface designed to adapt to a wide variety of products, including solutions for energy companies and other industries;
- Conducted end-to-end (E2E) and component testing to ensure functionality, reliability, and seamless user experiences;
- Reviewed and refined application manuals to improve clarity, usability, and accessibility for end-users and stakeholders;

Achievements:

- Full design and development of a dynamic layout tailored to adapt to various types of businesses, currently in use by the Civil Police of Minas Gerais and energy companies.

07/2022 – 08/2023     **Bit Tech**, Araxá, Brazil

*The largest software company in Araxá, focused on developing technologies for the mass services and insurance industries.*

System Analyst

- User support by resolving technical issues and guiding system users;
- Managing and updating the platform's database to ensure the accuracy and integrity of user registrations, active campaigns, and product offerings;
- Knowledge of the company's business rules and investigation of system errors;

Achievements:

- For the development of the new product, I proposed the introduction of React for component reuse and a more scalable architecture. The suggestion was accepted, improving the efficiency of screen creation and reducing development time by more than 50%.

## Education

06/2022 – 06/2024     Universidade Cruzeiro do Sul, Araxá, Brazil

### **Analysis and Systems Development**

Bachelor's degree in analysis, development, implementation, and maintenance of computer systems, with a special focus on geo-development, particularly in mapping and ecological preservation.

08/2024 – In progress     Postgraduate - Faculdade Libano, São Paulo, Brazil

### **Geodesy, Cartography, and Geoprocessing**

Studies focused on the application of geospatial technologies and geoprocessing techniques to solve a wide range of problems, with a particular emphasis on environmental preservation and sustainable development.

## Languages, computer skills and courses

Portuguese – Native / English - Fluent

Programming languages and other technologies

JavaScript, TypeScript, React, Figma, QGIS, ArcGIS Pro, ArcGIS Maps SDK for JavaScript, Leaflet, Folium, Python and SQL.

ESRI certifications

Exploring GIS, Python for Everyone, Basics of JavaScript Web Apps, Using GIS to Solve Problems, ArcGIS Pro Basics, Putting Your GIS Skills to Work, Getting Information from a GIS Map, Getting Started with Data Management, ArcGIS Online Basics, Analysis in ArcGIS Online, Telling Stories with GIS Maps.

Udemy certifications

Getting Started with Python GIS, React from Zero to Mastery (with hooks, router, API, Projects), GIS & Geospatial Analysis with Python, Geopandas, and Folium, Learn Geoprocessing with QGIS, React JS with TypeScript from Zero to Advanced in Practice, SQL for Data Analysis: From Basic to Advanced.

## Engagement & Interests

06/2023 – Present     Member of the Araxá Stingless Bee and Beekeepers Association

Interests:

Geography and history of geography, creation of stingless bees, hiking on trails, puzzle games and board games.