

CATAGUASES, MINAS GERAIS, BRAZIL

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JOÃO PAULO COUTINHO DE MATOS

PROFESSIONAL OBJECTIVE

Entry-level Backend Developer with strong foundations in Python and Ruby on Rails, and growing expertise in Go, C# and .NET. Experienced in backend development, data manipulation, and process automation. Comfortable working in Linux environments, using Git, SQL databases, and CI/CD pipelines. Passionate about building scalable, reliable software solutions and eager to grow in distributed systems and cloud-based architectures. Passionate about building scalable, reliable software solutions and eager to grow in distributed systems, cloud architectures, and backend engineering teams.

SKILLS

- **Programming Languages:** Python, Ruby (Rails), Go, C# (learning .NET Core), JavaScript/TypeScript
- **Backend Frameworks:** Flask, Ruby on Rails, ASP.NET Core (in progress)
- **Databases:** PostgreSQL, SQL Server
- **Data Engineering:** Pandas, PySpark, ETL concepts
- **DevOps & Tools:** Git, Docker, Linux, GitHub Actions, Jupyter Notebook
- **Testing & CI/CD:** Unit testing (xUnit, Pytest), Continuous Integration basics
- **Soft Skills:** Fast learner, problem-solving, teamwork, attention to detail, proactive communication

EDUCATION

Uniacademia Juiz de Fora

Bachelor's Degree in Biological Sciences

FEBRUARY 2015 – AUGUST 2018

CERTIFICATIONS

- **MITx/edX:** Introduction to Computer Science and Programming Using Python.
- **Codecademy:** Data Engineering Career Path, Learn Ruby, Learn Ruby on Rails, Learn MongoDB
- **freeCodeCamp:** Responsive Web Design, JavaScript Algorithms and Data Structures
- **Santander Open Academy:** Power BI
- **EF SET:** C2 Proficiency in English
- **In Progress:** WEX/DIO .NET End-to-End Developer Bootcamp

PROFESSIONAL EXPERIENCE

1. Cauzin Tintas Leopoldina – *Financial Manager*

NOVEMBER 2020 – JUNE 2024

- Led financial analysis and reporting processes, implementing data-driven decision tools.
- Developed strong skills in data analysis, problem-solving, and process optimization.

2. Colégio Apogeu – *Teaching Assistant*

DECEMBER 2018 – SEPTEMBER 2019

- Supported students in science and biology, organized study groups, and provided in-class assistance.

3. Embrapa Gado de Leite – *Research Intern*

DECEMBER 2015 – JULY 2017

- Conducted field and lab experiments on sustainable agriculture and animal welfare.
- Managed large data sets, performed statistical analyses, and contributed to peer-reviewed publications.

PERSONAL PROJECTS

- **LLM Training Projects:** Contributed to multiple LLM training initiatives by crafting complex prompts and evaluating AI outputs.
- **Point of Sale System – C#/.NET:** Currently developing a modular point-of-sale system with ASP.NET Core backend, Dockerized microservices, and CI/CD pipelines using GitHub Actions.
- **Dungeons & Dragons Campaign Editor and DM Screen – Go/Wails :** Currently developing an offline-first desktop application for D&D campaign management, including markdown-based content editing, in-session tracking tools, and a customizable DM screen using widget-based UI components.
- **Automated Subscriber Data Pipeline – Python:** Built an automated ETL pipeline handling subscriber data cleaning and using Python and Bash.
- **Bike Rental Data Analysis – Python/Pandas:** Designed a data project analyzing bike rental patterns against weather data, using Jupyter Notebook for processing and visualization.
- **Notification System – Ruby on Rails:** Developed a scalable backend notification system as a coding challenge, focusing on modular code.
- **Flask Cost Calculator:** Created a Flask application for parsing XML invoice data and calculating sales prices, deployed on Heroku.

TECHNOLOGIES & TOOLS

Python · C# · Ruby on Rails · Go · Flask · ASP.NET Core (learning) · SQL · PostgreSQL · SQL Server · MongoDB · Git · Docker · Linux · GitHub Actions · Pandas · Power BI · Bash · Jupyter Notebook · CI/CD · Unit Testing (xUnit, Pytest)