Mateus Silva Aragao

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EXPERIENCE

Full Stack Software Engineer
Freelance   July 2024 – Present
                                                                              Remote
- Leading the development of abilio.ai, a specialized business partner platform for Brazilian franchisees.
- Creating a full-stack application with Flask as the backend and React as the frontend.
- Designing and implementing data infrastructure using PostgreSQL and MongoDB from the ground up.
- Developing product solutions for small franchises and business owners leveraging LLM models.

Junior Laboratory Associate
New York University, Courant Institute   Feb 2024 – Present
                                                                         New York, NY
- Developing a web interface using JavaScript, Flask, HTML, and CSS for visualizing RNA splicing predictions, enhancing data interaction and user experience.
- Analyzing cell profiling data using CellProfiler and Python, creating comprehensive visual representations with Pandas and Matplotlib to derive actionable insights.
- Mentoring three undergraduate students in biological computing research, providing technical guidance and fostering skills relevant to their academic projects.

Data Engineer Intern
Amazon Inc.   May 2023 – Aug 2023
                                                                          Boulder,CO
- Engineered an observability framework for Spark applications on AWS EMR, handling over 500 spark tasks and processing petabytes of data, optimizing performance and scalability.
- Developed analytics dashboards in AWS Quicksight for real-time monitoring of Spark applications, improving visibility into performance metrics like shuffle and spill.
- Implemented a cloud infrastructure with AWS CDK in TypeScript, integrating with production and beta pipelines, to support data workflows for applications critical to customer data views.

Product Data Analyst Intern
Moises.ai   May 2022 – Aug 2022
                                                                             Remote
- Orchestrated an A/B testing analysis for a novel AI-assisted songwriting editor at Moises.ai, using Python and statistical methods to evaluate model efficacy across 2,000 users over three months.
- Developed and maintained an ETL pipeline using SQL in Google Big Query, facilitating streamlined data preparation for Tableau dashboards that monitored user engagement and demographics.
- Synthesized and presented key product insights to stakeholders through Tableau visualizations, driving strategic decisions for the AI music startup's product development.

Intro To Programming Tutor
New York University   Sep 2021 – Dec 2023
                                                                         New York, NY
- Conducted over 150 tutoring sessions across 2-3 classes per semester at NYU, supporting around 800 students annually with programming concepts, assignments, and exam preparation.
- Provided flexible tutoring services, including in-person and drop-in Zoom meetings for 10+ hours weekly, adapting to diverse learning needs and schedules.
- Enhanced student engagement and understanding in Python programming through personalized instruction and collaboration with faculty to refine course content.

EDUCATION

New York University
Bachelor of Arts in Computer Science And Data Science   New York, NY
                                                                          Dec. 2023

TECHNICAL SKILLS

Languages: Python, Scala, JavaScript, SQL | **Frameworks**: Flask, MapReduce, Hadoop ApacheSpark|
Databases: PostgresQL, MongoDB | **Data Vizualization Tools**: Tableau, AWS Quicksight |
Developer Tools: Git, AWS,Google Big Query | **Libraries**: pandas, NumPy, Matplotlib,Scipy | **Languages**:
Portuguese, Spanish