ANTÔNIO RODRIGUES

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SUMMARY

Data Scientist with over 4 years of experience, specializing in machine learning. Graduated in Computer Science from the University of Brasília (UnB) and currently pursuing a master's degree at the same institution. I have a solid background in consulting and back-end development, applying innovative solutions to complex problems. My experience includes implementing robust Data Science solutions, encompassing analysis, visualization, predictive modeling, and decision automation. Passionate about artificial intelligence, I have published articles in the field, focusing on the use of deep learning applied to healthcare. Always seeking new challenges and ready to collaborate on creative and critical projects.

HARD SKILLS

- Python
- R; C++; Ruby; Node
- AWS; Azure
- SAS Applications
- REST APIs
- MySQL; Mongodb; Postgresql
- Spark; Hadoop
- Databricks; Docker

SOFT SKILLS

- Communication
- Problem Solving
- Critical Thinking
- Creativity
- Leadership
- Teamwork
- Time Management
- Organizational Skills

PROFESSIONAL EXPERIENCE

Data Scientist and IT Consultant (GMW Consultoria)   July 2022 – Present

- Implemented SAS solutions for data analysis, predictive modeling, decision automation, and data visualization using tools like SAS Studio, Decision Manager, and Visual Analytics.
- Developed solutions in Python, Java, Ruby, and SQL for task automation and system integration.
- Implemented and managed cloud solutions on Azure, ensuring scalability and availability.
- Administered PostgreSQL databases, modeling data, optimizing queries, and ensuring data integrity.
- Developed REST APIs in Python with Flask for system integration, efficiently exposing data and functionalities.
- Utilized Big Data tools like Hadoop and Spark for processing and analyzing large data volumes.
- Implemented LLMs using Python to interpret documents and automatically generate rules based on the content.
- Participated in key projects with companies such as Santander, Bradesco, Ambev, Vivo, Oi e Vale.
- Delivered training sessions on the analytical data lifecycle, covering collection, exploration, deployment, and orchestration.

Back-end Developer Intern (4 Hábitos)   May 2021 - Jul 2022

- Implemented cloud solutions using Azure and AWS, provisioning resources, configuring services, and ensuring application scalability and availability.
- Developed interactive dashboards in Power BI, integrating data from multiple sources to create clear and intuitive visualizations, facilitating strategic decision-making.
- Developed AI models in Python and Azure, applying deep learning techniques for object classification in images.
- Administered NoSQL databases like MongoDB and CosmosDB, ensuring high availability, scalability, and performance, along with data modeling and query optimization.

- Utilized Python for Web Scraping to automate data collection and extraction of relevant information for analysis.

- Developed GraphQL APIs in Ruby and Node.js, providing a flexible and efficient interface for client-server communication.

Back-end Developer Intern (Filterfeed)   Mar 2020 - May 2021

- Applied NLP techniques in Python for sentiment analysis, information extraction, and text classification using libraries like NLTK and spaCy.

- Manipulated and analyzed data using Python, performing data cleaning, transformation, and visualization to generate insights and support decision-making.

- Managed MySQL databases with a focus on data modeling, query performance, and information security.

- Developed REST APIs in Python with Django for system integration, exposing data and functionalities following best development and security practices.

- Developed chatbots in Python and MySQL, using NLP techniques to filter important information, enhancing user experience with the data.

- Implemented Docker/Docker Compose environments to facilitate application distribution and execution, ensuring portability and consistency across different environments.

EDUCATIONAL QUALIFICATIONS

Master's degree in Computer Systems   Mar 2025 - Dec 2026
University of Brasília (UnB), DF, Brazil

Bachelor Degree in Computer Science   Jul 2019 - Dec 2024
University of Brasília (UnB), DF, Brazil

Technical Degree in Informatics   Jan 2017 – Dec 2018
Technical School of Ceilândia (ETC), DF, Brazil

PUBLICATIONS

- Rodrigues, A. V. M., & Oliveira, R. B. (2024). "Segmentation of skin lesions and their attributes in dermatoscopic images based on convolutional neural networks". Published in the *Revista de Informática Teórica e Aplicada (RITA)* and presented at the *XIX Workshop on Computer Vision (WVC).*

- Rodrigues, A. V. M., & Oliveira, R. B. (2023). "A Comparison of Mask R-CNN and U-Net for Melanoma Attribute Segmentation". Presented at the 29th Scientific Initiation Congress of UnB and the 20th Scientific Initiation Congress of DF. Awarded Honorable Mention.

- Rodrigues, A. V. M., & Oliveira, R. B. (2022). "Uma U-net Melhorada para Segmentação de Câncer de Pele em Imagens Dermatoscópicas". Presented at the 28th Scientific Initiation Congress of UnB and the 19th Scientific Initiation Congress of DF.

LANGUAGE PROFICIENCY

- Brazilian Portuguese - Native | American English - Intermediate | Spanish - Intermediate