

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

## SOFT SKILLS

- Communication
- Leadership
- Problem Solving
- Teamwork
- Critical Thinking
- Time Management
- Creativity
- 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, and 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.

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## 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

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## 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.

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## LANGUAGE PROFICIENCY

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