

# ANTÔNIO RODRIGUES

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## SUMMARY

Data Scientist with over 4 years of experience, specializing in machine learning and currently pursuing a degree in Computer Science at the University of Brasília (UnB). 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		SOFT SKILLS	
• Python	• REST APIs	• Communication	• Leadership
• R; C++;Ruby; Node	• MySQL; Mongodb; Postgresql	• Problem Solving	• Teamwork
• AWS; Azure	• Spark; Hadoop	• Critical Thinking	• Time Management
• SAS Applications	• Docker; Docker compose	• 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 and security.
- 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 and trained a LLM using Python to analyze documents and automate rule generation.

**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.
- Administered MySQL databases, modeling data, optimizing queries, and ensuring data integrity and 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.

## Freelancer

Jan 2019 - Dec 2020

- Executed data analysis projects using Python and R for statistical analysis, data visualization, and report generation.

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## EDUCATIONAL QUALIFICATIONS

### Bachelor Degree in Computer Science

Jul 2019 - Dec 2020

*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 at SIBGRAPI 2024.
- 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 - Advanced
- Spanish - Intermediate