

# JOÃO ATAÍDE

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## RESUMO

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IA Solutions Architect with solid experience in Computational Vision, specialized in developing and integrating advanced Artificial Intelligence and machine learning systems in geospatial contexts. Proficient in image processing algorithms, object detection, facial recognition, and stereo vision using deep learning techniques, convolutional neural networks, and network architectures. Skills in programming and computer graphics allow the development of innovative solutions with a special focus on geospatial data from satellites and drones.

## EXPERIÊNCIA PROFISSIONAL

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### Data Scientist

Na [VEJA Monitoramento](#)

January 2024 – Present

As a Data Scientist specializing in Computer Vision and Remote Sensing, I am dedicated to the development and innovation of advanced data pipelines and deep learning models. I am responsible for creating and optimizing complete training and processing pipelines, using a variety of sensors, including MODIS, Landsat, Sentinel-2, and Sentinel-1. I develop expert models for detection and classification using PyTorch, focusing on precision and operational effectiveness.

### Computational Vision Engineer / Data Scientist

At [Imagem Esri](#)

October 2020 – January 2024

At Imagem Esri, as a Computational Vision Engineer and Data Scientist, I contributed solutions that harmonize the analytical and spatial skills of ArcGIS with the accuracy and adaptability of Machine Learning and Deep Learning models. My main focus is to provide effective spatial data science solutions.

### Intern

At [inPlantar Meio Ambiente e Engenharia](#)

May 2020 – October 2020

I developed geospatial data models for optimization and pricing of rural settlements, applying the AHP method. This work resulted in a technical report that became an important source of analysis for INCRA, assisting both the federal and state government in regulatory decisions.

### Researcher

At [Núcleo de Pesquisa e Extensão Acesso à Terra Urbanizada](#)

September 2017 – October 2020

As a Scholar/Researcher at the Research and Extension Center Access to Urbanized Land, I made a significant contribution to research in geoprocessing and cartography. My achievements include:

- Production of scientific articles and presentations at national and international events, expanding the visibility and impact of research.
- Conducting training and training in cartography and geoprocessing software and equipment, promoting the development of technical skills in the team.
- Execution of surveys and processing of topographic data using Total Station, GNSS RTK, and Drones, improving the accuracy and efficiency of the geographical studies carried out by the center.

## EDUCATION

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- **MBA Operational Research and Decision Making**  
EASE Brasil, online, October 2022 – July 2023
- **Bachelor's Degree Civil Engineering**  
Federal Rural University of the Semi-Arid, Rio Grande do Norte, Brazil, March 2019 – April 2021
- **Especialização Business Intelligence, Big Data E Analytics**  
North Paraná University, online, January 2019 – March 2021

**Specialization Geoprocessing and Georeferencing**  
Federal Rural University of the Semi-Arid, Rio Grande  
do Norte, Brazil, October 2019 – September 2021

**Bachelor's Degree Science and Technology**  
Federal Rural University of the Semi-Arid, Rio Grande  
do Norte, Brazil, January 2016 – February 2019

## SKILLS

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ArcGIS	Python	Communication
Arcpy	OpenCV	Requirements
QGIS	TensorFlow	Gathering
R	PyTorch	Leadership
Scikit-Learn	SQL	

## LANGUAGES

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**Portuguese** – Native/Fluent  
**English** – Advanced  
**Spanish** – Elementary

## MOOCS

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- **Computer Vision 101**, OpenCV, March 2023
- **Computer Vision Nanodegree**, Udacity, March 2022
- **Deep Learning Specialization**, Deep Learning AI, July 2022
- **PylImageSearch Gurus**, PylImageSearch, September 2022
- **Remote Sensing Image Acquisition, Analysis and Applications**, UNSW Sydney, April 2022
- **PDI com Python**, Laboratório de Propulsão Digital, July 2022
- **Artificial Intelligence (AI) for Earth Monitoring**, EUMETSAT, May 2022
- **Statistical Learning**, Universidade Stanford, May 2022
- **Data Science do Zero**, Stack Tecnologias, March 2022
- **Spatial Data Science and Applications**, Yonsei University, July 2021
- **Data Pioneers**, Universidade de Berkeley, dezembro 2020
- **Data Science na Prática**, Sigmoidal 2.0, November 2020
- **PDI com Softwares Livres**, Laboratório de Propulsão Digital, July 2020