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# LEANDRO BOTELHO ALVES DE MIRANDA

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## Data Scientist

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### Bio

He has a BSc degree in Computer Science at the Federal University of Alagoas, Brazil, which included researchers in Pattern Recognition and Computer Graphics. Currently MSc and Doctoral Student in Computer Science at Fluminense Federal University, Brazil. His master's research was in clustering algorithms, emphasis about spatially constrained clustering. He has experience in Computer Science, focusing on Pattern Recognition, Data Mining, and Machine Learning. Currently, he is working on research involving the Ambient Intelligence, principally in Context Reasonings for Human Activity Recognition on Context-Aware computing.

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### Personal Education

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| 2016 - now  | Doctorate in Computer Science<br><i>Fluminense Federal University, UFF, Niteroi, Brazil</i><br>Advisor: José Viterbo Filho.<br>Co-advisor: Flávia Bernardini.     |
| 2014 - 2016 | Master's Degree in Computer Science<br><i>Fluminense Federal University, UFF, Niteroi, Brazil</i><br>Advisor: José Viterbo Filho<br>Co-Advisor: Flávia Bernardini |
| 2010 - 2014 | Bachelor's Degree in Computer Science.<br><i>Federal University of Alagoas, UFAL, Maceió, Brazil</i><br>Advisor: Thales Miranda de Almeida Vieira                 |

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### Professional Experience

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| 2011 - 2014 | Laboratório CalaMGo<br><i>Laboratório de Modelagem Geométrica e Visão Computacional – CPMAT – UFAL - Maceió, AL</i><br>He has experience in Geometric Modelling, such as the development of tools for the insertion of geometric details on surfaces using parameterizations with gradient-based reconstruction. He has an award at the XXVII SIBGRAPI Conference On Graphics, Patterns And Images, in 2014, which is the most computer graphics conference in Brazil. Besides, he worked in Pattern Recognition researches, using the Kinect depth sensor, applying libraries as NITE and OPENNI. Both were focusing on gesture recognition. |
| 2015 - now  | LabTempo<br><i>Laboratório Tempo – Sistemas de tempo real e embarcados – IC/UFF – Niterói,Rj</i><br>He has expertise in the development of mining tools, algorithms, and visualization of spatial data with restriction. Also, he has experience in research on open government data analytics toward patterns in user behavior. He currently does studies in IoT, focusing on human activity recognition in ambient intelligences.   |

2019 - 2019

Research Engineer

ISABO

He was a Research Engineer in Pattern Recognition and Computer Vision fields. During this period, his research had been focused on people fall detection issues and object segmentation of RGBD images.

Skills

Data Engineering tools

Basic Skills:

- MongoDB,
- Redis
- SQOOP
- Hive
- Pig, Flume
- Apache Spark

Python

He has experience in this language, mainly in the use of Data Analytics libraries for Data Mining and Machine Learning areas. He knows tools like Pandas, Numpy, scikit-learning, Matplotlib, and seaborn. Also, he has intermediate experience using TensorFlow in Deep Learning,

JAVA

He has experience in this language, since theory until projects development. He has experience on tools for Data Mining and Machine Learning as WEKA API.

Android

Basic skill.

Data Analytics Tools

- JMP
- Tableau Basic

Web Languages (PHP and JavaScript)

Basic Skill, he is able to create simple webpage.

C++

He has experience in this language, mainly on graphics APIs, as Opengl e Opengl 4.

Research Areas

- Machine Learning
- Data Mining
- Pattern Recognition
- Deep Learning
- Metaheuristics
- Computer Graphics

Idioms

- English (Advanced. He is not fluent)
- Spanish (Basic)
- French (Basic)

Awards

2018

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Second Position on Hackaton (ERCAS), Escola Regional de Computação Aplicada à Saúde.

2014

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Best Works at Workshop of Undergraduate Work, XXVII SIBGRAPI

2012

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Academic Excellence, Federal of Alagoas University

2006

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Honorable Mention - Alagoana Olympiad of Mathematics, Federal of Alagoas University

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### Conference Reviewer

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- XIV Simpósio Brasileiro de Sistemas de Informação (SBSI 2018)
- Brazilian Conference on Intelligent Systems (2019)
- The Americas Conference on Information Systems (2020,2021)

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### Scientific Journal Reviewer

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ISSN 1319-8025

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ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING

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### Publications

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Lattes

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<http://lattes.cnpq.br/6802508864911606>