
LEANDRO BOTELHO ALVES DE MIRANDA

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Data Scientist

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, with emphasis on spatially constrained clustering. He has experience in Computer Science, focusing on Pattern Recognition, Data Mining, and Machine Learning. Currently, he is working on researches involving Ambient Intelligence, principally in Context Reasonings for Human Activity Recognition on Context-Aware computing. Otherwise, he aims to investigate and provide technological solutions for the integration of Edge Computing and Network Functions Virtualization (NFV) paradigms.

Personal Education

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

Professional Experience

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| 2020 - 2021 | PhD Reseacher
<i>UFF - P&D - Sponsor: DELL</i>
The objective of this Working Plan was the realization of an R&D project aiming to specify and implement a Framework for the orchestration of virtualized network services in Edge Computing environments. The project investigated and provided technological solutions for integrating the Edge Computing and Network Functions Virtualization (NFV) paradigms in an orchestration framework. He developed vertical or horizontal auto-scaling (that is, to acquire more robust computing resources or generate more replicas of the same virtual network function and load balance between them) using strategies based on Machine Learning. |
| 2019 - 2019 | Research Engineer
<i>ISABO</i>
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. |

2020 - 2020	<p>Content Teacher</p> <p><i>Sagah - Soluções Educacionais Integradas</i></p> <p>Content teacher of the learning unit: "Preparation and exploratory data analysis."</p>
2018 - 2018	<p>Content Writer</p> <p><i>QDiscursivas</i></p> <p>Content writer of the book: "Escritor conteudista do livro Provas Discursivas de Tecnologia da Informação Banca FCC ISBN 9788592627348"</p>
2015 - now	<p>LabTempo</p> <p><i>Laboratório Tempo – Sistemas de tempo real e embarcados – IC/UFF – Niterói,Rj</i></p> <p>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.</p>
2011 - 2014	<p>Laboratório CalaMGo</p> <p><i>Laboratório de Modelagem Geométrica e Visão Computacional – CPMAT – UFAL - Maceió, AL</i></p> <p>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.</p>

Skills

Data Engineering tools

Basic Skills:

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

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.

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.

Android

Basic skill.

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

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

2014

Best Works at Workshop of Undergraduate Work, XXVII SIBGRAPI

2012

Academic Excellence, Federal of Alagoas University

2006

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

Conference Reviewer

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

Scientific Journal Reviewer

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Publications

Lattes

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