LEANDRO BOTELHO ALVES DE MIRANDA

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in linkedin.com/in/leandrobotelhodemiranda/ ○ botelhomiranda.github.io/online-cv/

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

2016 - now

Doctorate in Computer Science

Fluminense Federal University, UFF, Niteroi, Brazil

Advisor: José Viterbo Filho.

Co-advisor: Flávia Bernardini.

2014 - 2016

Master's Degree in Computer Science

Fluminense Federal University, UFF, Niteroi, Brazil

Advisor: José Viterbo Filho

Co-Advisor: Flávia Bernardini

2010 - 2014

Bachelor's Degree in Computer Science.

Federal University of Alagoas, UFAL, Maceió, Brazil

Advisor: Thales Miranda de Almeida Vieira

Professional Experience

2021 - now

Ph.D. Researcher Fellow

Prefeitura de Niterói - Seplag

Ecosystem and Data Governance to Improve the Quality of Open Data Portals and Transparency in Niterói.

Open Government Data Ecosystem (OGDE) is a specific way of understanding how participated actors and groups create shared meaning, generate values around Open Data, and develop this process by their interaction properties, allowing or restricting the maturity and health of the ecosystem itself. The goal of this project is the design and implementation of an OGDE for the city of Niterói, considering:
1) The participation of several interested actors in be available and consume data and information from Niterói;
2) The various open data and information portals already built, as well as the Official Gazette portals, which we will create, and;
3) Best data governance practices, data ecosystem concepts, and laws on access to information, transparency, and general data privacy law.

In the context of the OGDE, I will consider the ecosystem practices and Data Governance for the construction of portals, business process mapping to improve the quality of portals from the viewpoint of data governance and transparency.

2020 - 2021

PhD Reseacher

UFF - R&D - Sponsor: DELL

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

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.

2020 - 2020

Content Teacher

Sagah - Soluções Educacionais Integradas

Content teacher of the learning unit: "Preparation and exploratory data analysis."

2018 - 2018

Content Writer

QDiscursivas

Content writer of the book: "Escritor conteudista do livro Provas Discursivas de Tecnologia da Informação Banca FCC ISBN 9788592627348"

2015 - now

LabTempo

Laboratório Tempo – Sistemas de tempo real e embarcados – IC/UFF – Niterói,Rj

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.

2011 - 2014

Laboratório CalaMGo

Laboratório de Modelagem Geométrica e Visão Computacional – CPMAT – UFAL - Maceió, AL

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.

Skills

Data Engineering tools

Basic Skills:

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

Data Analytics Tools

- JMP
- Tableu Basic

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,

Web Languages (PHP and JavaScript)

Basic Skill, he is able to create simple webpage.

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.

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

ISSN 1319-8025

ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING

Publications

Lattes

http://lattes.cnpq.br/6802508864911606