VICTOR SANTOS

Data Scientist | Software Engineer | Climber | Geek

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As a Data Engineer at the Fortaleza Planning Institute (IPLANFOR), I worked with a small team to develop and maintain data pipelines, databases, and dashboards to aid the creation and monitoring of public policies in urban planning and management. This provided reliable and actionable data insights for decision makers. I have a strong academic background in Physics, with a PhD in Theoretical and Mathematical Physics from the Federal University of Ceará, where I also taught as a Lecturer for 1.5 years. I have published multiple papers in peer-reviewed journals and presented my research at international conferences. Although my research involves theoretical aspects in Physics, I am passionate about the possible applications of Physics and its methods to real-world problems.

PROFESSIONAL EXPERIENCE

Data Engineer & Data Scientist
Fortaleza Planning Institute (IPLANFOR)

📅 July 2021 – September 2023   📍 Fortaleza, Ceará, Brazil

- Creation of the Data Observatory Platform, aggregating data from the city and analyzes used in monitoring public policies
- Assistance in the Situation Room
- Assistante in the writing of studies and technical notes
- Participation in the structuring of the City Hall video surveillance central

Main technologies: R (Shiny), Python (Pandas, Prefect), PostgreSQL, Docker, OpenShift

Data Scientist
Fundação Cearense de Apoio ao Desenvolvimento Científico e Tecnológico (FUNCAP)

📅 August 2018 – November 2022   📍 Fortaleza, Ceará, Brazil

- Analysis and evaluation of scientific research developed in the state of Ceará, establishing an overview of the main areas funded by the government and a profile of the researchers and publications within the national and international scenario, through collecting and analyzing of data from national and international publishing databases, such as the Lattes platform, Scielo, Google Scholar and Montenegro platform.

Main technologies: R, Ruby, Docker, PostgreSQL, BaseX, ArangoDB

Assistant Professor
Universidade Federal do Ceará

📅 February 2017 – January 2019   📍 Fortaleza, Ceará, Brazil

- Lecturing Basic Physics courses for Engineering, Physics and Geology

Main technologies: Python (for simulations), LaTeX

Postdoc researcher
Universidade Federal do Ceará

📅 August 2015 – January 2017   📍 Fortaleza, Ceará, Brazil

- Research on quantum aspects of gravitational theories
- Mentoring graduate students

Main technologies Python, LaTeX

LATEST PUBLICATIONS

- Á. Rincón and **Victor Santos**, "Greybody factor and quasinormal modes of regular black holes," *The European Physical Journal C*, vol. 80, no. 10, Oct. 2020. DOI: 10.1140/epjc/s10052-020-08445-2.
- R. Oliveira, D. M. Dantas, **Victor Santos**, and C. A. S. Almeida, "Quasinormal modes of bumblebee wormhole," *Classical and Quantum Gravity*, vol. 36, no. 10, p. 105 013, Apr. 2019. DOI: 10.1088/1361-6382/ab1873.

PROGRAMMING/MARKUP LANGUAGES

Python   R   Ruby   C/C++   Fortran   Common Lisp   JavaScript   HTML/CSS   PL/SQL

PLATFORMS

Apache Superset   Docker   Kubernetes   Apache Spark   Google Cloud Computing

STRENGTHS

Hard-working   Flexibility   Patience   Motivation   Web Scraping   Data Mining   Analytical Thinking   Research   Teamwork

LANGUAGES

English ●●●●○
Portuguese (Native) ●●●●●

EDUCATION

Ph.D. in Physics
Universidade Federal do Ceará

📅 2005 – 2008   📍 Fortaleza, Ceará, Brazil

B.S. in Physics
Universidade Federal do Ceará

📅 2010 – 2014   📍 Fortaleza, Ceará, Brazil