SAMUEL AMICO

Data Scientist | Mechatronics Engineering

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EDUCATION

Science and Technology - Bachelor

University of Rio Grande do Norte

2015 – 2018 Natal , Brazil

Mechatronics Engineering - Bachelor

Federal University of Rio Grande do Norte

2018 – 2019 Natal , Brazil

WORK EXPERIENCE

- Data Scientist at the Public Ministry of Rio Grande do Norte in partnership with the Metropole Digital Institute. Responsible for statistical data analysis, Pipelines development for intelligent data analysis using knowledge in Python, Scala, Spark, Docker and NoSQL databases. Big Data Infrastructure Development using the Hadoop Ecosystem. Started in 2019 and still working today

SKILLS

Python, R, Linux, NoSQL, SQL ●●●●●

Kafka, Spark, Hadoop, Docker, PowerBI ●●●●●

HTML, CSS, JavaScript, Scala, LabView ●●●●○

EDUCATION / COURSES

Data Science Specialization

Coursera - IBM

June 2018 – November 2018

PowerBI - Data Scientist

Work Avanti

July 2019 – July 2019

HONORS & AWARDS

- Laurea in Science and Technology Bachelor Degree.
- Work awarded in Quantum Computing by the International Institute of Physics and by the Mechatronics Engineering department.
- Best undergraduate engineering work in 2019
- Second place at IoT Hackathon at Raffe Brewery

PROJECTS

Study of vibrations in mechanical machines

- An automatic system was developed which, through vibration detection, was possible to perform predictive maintenance on the machines of the UFRN mechanics laboratory. I used concepts of Signal Analysis, Fourier Transform and Machine Learning to develop a system made in LabView, C ++ and Python.

Fish detection and recognition

- Developed a system that tracks and identifies the location of a fish in real time. Project in partnership with Machine Learning and Biology laboratory.

Machine learning research

- Research focused on Machine Learning (ML) algorithms using Python and libraries such as Pandas, ScyPy and Scikit. The research aimed to use ML algorithms to solve problems with complex dynamics through intelligent controllers.

Quantum Computing / Quantum Machine Learning

- Research in Quantum Computing and Quantum Machine Learning by the International Institute of Physics. Developed a new Quantum Perceptron capable of overcoming the limitations of the classical Perceptron.