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Daniel C. Patiño

ABOUT ME

I have focused my career in data science and artificial intelligence through different studies and work experience. I support free software and in my free time, I usually draw. I am a native of Aguazul - Casanare. I like the *joropo*, the Orinoquía region, and their culture. I consider myself responsible and punctuality is very important to me.

I have worked on several projects involving the use of data analytics and artificial intelligence, the most recent of which involved the use of deep generative models for the production of synthetic commodity market data to serve as input to predictions and trading strategies.

EXPERIENCE

Ultracom, Medellín — Data engineer

MAY 2022 - PRESENT

Frontierx, Bucaramanga — Data scientist and Developer.

AUGUST 2018 - APRIL 2022

- I perform data analytics, artificial intelligence, and development tasks, using Python, linked to the agreement between FRONTIERX SAS and the company MKS Sarl in a project of design, implementation, simulation, visualization, and deployment of trading strategies in the commodities market based on behaviors and notions of the company's traders.
- I performed data analytics and artificial intelligence tasks related to the agreement between FRONTIERX SAS and the company hAItta Sarl, according to the activities proposed in the portfolio positioning project for the company Wind To Market, which operated in the Spanish energy market. Wind To Market had a relational database from which data was obtained and transformed to be used in the predictive models implemented in Python.
- I developed post-processing tasks for one of the FRONTIERX projects using the Robosat Framework and proprietary functions to improve the visualization of the results of a prediction model using satellite images.

Chasegroup, Bucaramanga — Backend Developer.

FEBRUARY 2017 - OCTOBER 2017

• Responsible for the creation of an auxiliary web platform for the Sevent project, an event information ChatBot. Worked with Flask for the development of this platform, which was in charge of filling Sevent's database, taking events from Facebook.

Universidad Industrial de Santander, Bucaramanga — Developer.

SEPTEMBER 2017 - JUNE 2018

 Responsible for updating and maintenance of the mooc-grader project led by Professor Raúl Ramos Pollán. Worked on the improvement of a Framework implemented in Jupyter-Notebook for grading and administration of assignments, evaluations, and workshops, using Google API for spreadsheets.

Mathematics Faculty, Universidad Industrial de Santander, Bucaramanga — Computer Room Administrator.

JULY 2016 - JUNE 2017

• In charge of managing the computer rooms of the mathematics faculty of the Universidad Industrial de Santander.

EDUCATION

Universidad de Antioquía, Medellín — Master's Degree in Engineering.

JUNE 2019 - PRESENT

Focusing the master's degree on the Deep learning research line offered by Professor Raúl Ramos Pollán, a project is being carried out to determine the impact of using synthetic data produced by deep generative models in predictions and trading strategies in the commodities market.

Geomática, Universidad Industrial de Santander, Bucaramanga — *Mobile Computing Diploma*.

APRIL 2017 - MAY 2018

The advantages of using mobile technologies for project development were studied. The need to know programming in these technologies was determined and several projects were carried out using high-level languages such as Java and Lua. Java was used in the programming of applications with Android Studio and Lua for multiplatform developments using the CoronaLab Framework.

Universidad Industrial de Santander, Bucaramanga — System Engineering.

OCTOBER 2013 - SEPTEMBER 2018

Working and studying with classmates, friends and teachers developed skills and knowledge in the field of systems engineering, teamwork, and self-learning. In this way, the realization of projects, courses, or workshops inside and outside

the University was achieved. As a degree project, the estimation of the level of urban socioeconomic stratification was carried out using convolutional neural networks on satellite images with augmented information.

Sugamuxi School, Sogamoso — Bachelor.

JANUARY 2010 - DECEMBER 2011

I attended the 10th and 11th grades preparing myself to enter university life.

COURSES

Cognitive Class — Accessing Hadoop Data Using Hive.

MAYO DE 2022

Cognitive Class — Moving Data into Hadoop.

MAYO DE 2022

Cognitive Class - MapReduce and YARN.

MAYO DE 2022

Coursera, DeepLearning.AI — Build Basic Generative Adversarial Networks (GANs).

JUNE 2021

Introduction to the basic development of generative adversarial networks (GANs) through the PyTorch framework.

Coursera, DeepLearning.AI - TensorFlow Developer.

OCTOBER 2019

Introduction to the development of deep learning models with the TensorFlow framework through 4 virtual courses.

Coursera, DeepLearning.AI - Deep Learning.

JULY 2019

A theoretical and practical introduction to one of the fields of artificial intelligence, different models, and architectures used in deep learning was studied.

National Copyright Office - Copyright in the software industry.

JUNE 2018

Through readings and use cases, the different rights and duties of developers and the industry in the country were studied, as well as the importance of licensing software.

Two Scoops Press — Creating and Distributing Python Package.

MARCH 2018

The different techniques and tools used when creating and maintaining a Python package were studied. Tools such as coockicutter, Travis, Read the Docs, among others.

Platzi - React.js.

JUNE 2018

With the development of a project, we studied how React works, in order to learn about this tool and be able to use it in different projects.

Platzi - Redux.js.

JUNE 2018

With the development of a project, we studied how Redux works, in order to learn about this tool and be able to use it in different projects.

Cisco Networking Academy, CCNA — Networking Course, levels I and II.

FEBRUARY 2017

Virtual course offered by Cisco where they studied the basic principles of routing and switching, courses developed in the networking class at the Universidad Industrial de Santander, led by Professor Pedro Trujillo.

VOLUNTEERING

CUSOL-UIS - Comunidad Universitaria de Software Libre

APRIL 2016 - FEBRUARY 2017

Support in the organization of activities for the university community such as workshops, events, film forums, etc. Support was provided for the Software Freedom Day 2016.

CEIS-UIS — Centro de Estudios de Ingeniería de Sistemas

MARCH 2016 - FEBRUARY 2017

Support in the administration and proper functioning of the Systems Engineering study center of the Universidad Industrial de Santander.

SKILLS

Artificial Intelligence and Data Analytics

In the field of artificial intelligence and data analytics, I have worked on several projects involving the use of tools such as Python, Scikit-learn, Tensorflow, Numpy, Pandas, Jupyter Notebook, Bokeh y Matplotlib.

Backend Development

In the field of backend development, I have worked on projects that involve the use of tools such as git, Gnu-Linux, Google-Apis, Docker y Flask.

Frontend Development

In the field of frontend development, I have worked on projects that involve the use of tools such as HTML, Js, Css, ReactJS y Materialize.

Mobile Development

In the field of mobile development, I have worked on projects involving the use of tools such as Android y CoronaLab.

Graphical Design

In the design field, I have worked with vectorial drawing tools such as Corel Draw e Inkscape.

CERTIFICATES

EF SET English Certificate - 64/100 (C1 ADVANCED)

https://www.efset.org/cert/YLSHpu

JUNE 2021

TESTIMONIALS

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