

# Daniel Alonso

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## EDUCATION

- **Universidad Carlos III de Madrid** Madrid, Spain  
• *Master in Statistics for Data Science* September 2020 - September 2021
  - Working with R/Python/Julia for statistical analysis, data viz. and reports and collaborative projects
  - Building statistical models, ML models, and interactive web applications with RShiny and Dash
- **Instituto Tecnológico de Santo Domingo** Santo Domingo, Dominican Republic  
• *Bachelor's degree in Mathematics and Actuarial Science* August 2015 - October 2019
  - Studied calculus, functional analysis, actuarial mathematics, financial mathematics, statisticsM
  - Perform financial data modelling and predictions as well as learn to code

## SKILLS SUMMARY

- **Languages:** Python, R, SQL, Shell scripting, Javascript, Solidity, LaTeX, HTML+CSS, Julia, MATLAB, VBA
- **Data:** Manipulation, visualization of data/arrays and ML modelling in Python/R. Database modelling.
- **Tools:** Git, docker/docker-compose, server infra software, Spreadsheets/Excel  
Software development + Vanilla JS web dev (html, css, js)
- **Platforms:** Strong familiarity with unix shells (zsh, bash, sh, etc.) and comfortable with CLIs
- **Other:** Blockchain data analysis + on-chain sleuthing. Strong defi and on-chain arbitrage experience  
Passion for languages, development, teaching, writing, and presenting information

## LANGUAGES

- **Advanced/Native:** Spanish, English. • **Intermediate:** Dutch. • **Basic:** Italian.

## WORK EXPERIENCE

- **NeoLux Energy** Madrid, Spain (remote)  
• *Python backend developer (Part-time)* January 2023 - Currently
  - Python backend development using django and DRF (REST APIs)
  - Data wrangling and visualization using pandas, numpy, matplotlib, plotly and streamlit
- **Populate** Madrid, Spain (remote)  
• *Python developer & Data scientist (Full-time)* September 2021 - February 2022
  - Developing a data integrity checking pipeline using Python and Great Expectations
  - Build interactive dashboards using Metabase, PostgreSQL queries and Metabase's native UI
  - Data analysis using public contracting data from Spain's with pandas, numpy, matplotlib, seaborn and streamlit
  - Improving the accuracy (c. 10
  - Performing a keyword extraction analysis, stemming and lemmatization using NLP methods
- **Cervecería Nacional Dominicana** Santo Domingo, Dominican Republic (remote)  
• *Data scientist (Full-time)* March 2020 - August 2020
  - Cleaning up and manipulating data with pandas for analysis
  - Developing complete data pipelines for ML model development tuning and deployment
  - Clustering clients based on their product sales to target market niches
  - Utilizing Azure Databricks and PySpark to effectively deploy, clean up and tune models for sales prediction during the ongoing COVID-19 pandemic at the time
- **Referencia Laboratorio Clínico S.A.** Santo Domingo, Dominican Republic  
• *Python developer & Lead data scientist (Full-time)* August 2019 - March 2020
  - Developing software tools for automation with an emphasis on minimal human intervention
  - Extracting, cleaning up, processing, visualizing and manipulating data with pandas, numpy, matplotlib, seaborn
  - Constructing databases from raw text data using python and a strong use of regex
  - Analyzing genetic sequence data
- **Seguros Sura** Santo Domingo, Dominican Republic  
• *Vehicle insurance subscription analyst (Full-time)* April 2019 - August 2019
  - Programming/building spreadsheets with macros (VBA) to improve the quote-giving process
  - General data analysis and reporting on sales/accident rate for different insurance policies or groups of policies
  - Pricing/discount analysis and quoting individual vehicle insurance policies and fleets of vehicles
- **Sainz Tutoring** Santo Domingo, Dominican Republic  
• *Mathematics, programming & physics tutor (Part-time)* November 2016 - May 2019
  - Math, programming and physics tutor for high school and university students
- **Business Computer POS** Santo Domingo, Dominican Republic  
• *IT Technician (Full-time)* May 2015 - October 2015
  - Repairing and maintaining computers and peripherals / Installing and configuring software
- **Alonso & Colado SRL** Santo Domingo, Dominican Republic  
• *Marketing manager (Full-time)* January 2014 - August 2014
  - Designing ads and general image editing / Data entry, mass emailing to customers and CM

## PROJECTS, BLOG & CERTIFICATIONS

View all my projects, articles, and certifications.