

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, statistics
 - 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, Kubernetes, server infra software, Spreadsheets/Excel
Software development + Vanilla JS web dev (html, css, js), Django, DRF.
- 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)
Tech Lead (Full-time) January 2023 - Currently
 - Python backend development using django and DRF (REST APIs, GraphQL)
 - Small frontend development contributions (React)
 - Data manipulation with pandas, building interactive webapps with streamlit
 - Utilizing AWS to manage our infrastructure (EKS, EC2, S3, ...)
 - Using and helping manage our Jira, Confluence and repository documentation
 - Developing CI/CD pipelines to deploy changes to our environments
 - Helping manage and direct our tech team, roadmap and design with our CTO
 - Hosting, deploying and exposing on-premise services to the web (Metabase, in-house deployments, etc) with docker-compose and traefik
- 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 pct.) of a TensorFlow deep learning model and some smaller scikit-learn models
 - 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 deploy, clean up and tune models for sales prediction
- 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.](#)