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, SQL, Shell scripting, Javascript, Go, R, Solidity, LaTeX, HTML, CSS, Julia, MATLAB, VBA.
- **Data**: Manip./analysis/viz of data, ML models. Metabase. DB design, PostgreSQL, MySQL, MSSQL, ClickHouse.
- **Tools**: Git, GH actions, docker/compose, Kubernetes, CI/CD, networking, linux servers cloud/on-premise. VanillaJS, HTMX, TailwindCSS, Django, DRF, FastAPI, Fiber-go, Gin, React, ORMs. Unix shells (zsh, bash, sh, etc.) y CLIs, SRE. Jira, Confluence. Spreadsheets/MS Office.
- **Other**: Documentation, GH Issues, Blockchain/DeFi, Agile/Scrum, Code reviews, ChatGPT, GIMP. Passion for languages, development, teaching, writing, quality, and presenting information.

LANGUAGES

- **Advanced/Native:** Spanish, English. • **Intermediate:** Dutch. • **Basic:** Malay, 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, ORM)
  - 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.