

Daniel Alonso

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INTRODUCTION

I'm a developer specialized in designing cost-effective infrastructure, automating manual tasks, and untangling technological chaos to help teams save time and resources. I'm driven by a passion for productivity, efficiency and transparency. Through my company, [Crow Tech Pte. Ltd.](https://www.crowtech.com), my team and I provide consulting services in development, data, and infrastructure to help businesses thrive with lean, effective tech solutions.

SKILLS SUMMARY

- **Languages:** Python, SQL, Shell scripting, JavaScript, Go, R, Solidity, LaTeX, HTML/CSS/Tailwind.
- **Data:** Data Manip./analysis/viz/ML. Metabase. DB design, PostgreSQL, MySQL, MSSQL, ClickHouse, DynamoDB.
- **Tools:** GH actions, docker/compose, Kubernetes, Terraform, Ansible, linux servers cloud/on-premises, Git. HTMX, FastAPI, Django, Fiber/Gin, React, ORMs, Git, RShiny. GH Issues, Jira, Confluence, Agile/Scrum, Spreadsheets/MS Office, GIMP.
- **Other:** Passion for languages, development, teaching, writing, quality, and presenting information. Extensive use of Blockchain/DeFi, Code reviews, LLM APIs, documentation.

LANGUAGES

- **Native:** Spanish, English.
- **Basic:** Malay, Dutch, Italian.

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

WORK EXPERIENCE

- **Crow Tech Pte. Ltd.** Spain / Singapore (remote)
CEO (Full-time) *September 2024 - Present*
 - Working with consulting clients on software, data and infrastructure projects.
 - Developing and maintaining software, managing cloud infra, CI/CD, and monitoring.
- **Neolux Energy** Madrid, Spain (remote)
Intern → Backend developer → Tech Lead (Full-time) *January 2023 - Present*
 - Turning existing software useful. Saved 1-2k EUR monthly on infra/service costs self-hosting software.
 - Cont. monitoring and management, hosting and deployment of on-premise apps (w/ docker, traefik, Cloudflare)
 - Python backend development using Django, DRF, FastAPI (REST APIs, GraphQL, ORMs)
 - Building and maintaining interactive webapps with streamlit and frontend dev. with react
 - Managing AWS infra (EKS, EC2, S3, ...), developing CI/CD using GH actions
 - Jira project management, documentation using confluence, software design decisionmaking
 - Collaborating with our CTO to manage the tech team, code reviews and deployments
- **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, SQL queries and Metabase's native UI
 - Data analysis using pandas, numpy, matplotlib, metabase, seaborn, R and streamlit
 - Improving the accuracy (c. 10 pct.) of a TensorFlow deep learning model and some smaller scikit-learn models
 - Quit due to burnout and change of interests to write, study and pursue new knowledge for a while
- **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. Building ML models.
 - 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
 - Quit the company to move to Spain to do my master's degree
- **Referencia Laboratorio Clínico S.A.** Santo Domingo, Dominican Republic
Python developer & Lead data scientist (Full-time) *August 2019 - March 2020*
 - Developed automation scripts which allowed to 15-20x the output of genetic family relations tests.
 - Extracting, cleaning up, processing, visualizing and manipulating data with pandas, numpy, matplotlib, seaborn

- Constructing DBs from raw text data using python and a strong use of RegEx. Analyzing genetic sequence data
- Quit because I felt I had made the impact I wanted to make in the company and wanted new challenges

- **Seguros Sura** Santo Domingo, Dominican Republic
Vehicle insurance subscription analyst (Full-time) *April 2019 - August 2019*
 - Building spreadsheets with macros (VBA) improving the quote-giving process boosting team productivity with the tool, which had some broken features that I also decided to fix.
 - Pricing/discount analysis and quoting individual vehicle insurance policies and fleets of vehicles
 - Quit to pursue new challenges as I felt I made the impact I wanted to make. The tool is still used daily.
- **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

CERTIFICATIONS AND DIPLOMAS

- **HashiCorp** View on: Credly
HashiCorp Certified: Terraform Associate (003) *January 2025*
- **Amazon Web Services** View on: Credly
AWS Certified SysOps Administrator - Associate *January 2025*
- **Amazon Web Services** View on: Credly
AWS Certified Developer - Associate *January 2025*
- **Amazon Web Services** View on: Credly
AWS Certified Cloud Practitioner *January 2025*
- **Amazon Web Services** View on: Credly
AWS Certified Solutions Architect - Associate *December 2024*
- **UC Irvine** View on: Coursera
Blockchain Specialization *February 2020*
- **University at Buffalo** View on: Coursera
Blockchain Basics *January 2020*
- **Wharton Online** View on: Coursera
Cryptocurrency and Blockchain: An Introduction to Digital Currencies *January 2020*
- **Wharton Online** View on: Coursera
FinTech: Foundations, Payments, and Regulations *January 2020*
- **DataCamp** View on: DataCamp
Data Scientist with Python *October 2019*
- **IESE Business School** View on: Coursera
Corporate Finance Essentials *July 2019*
- **IBM** View on: Coursera
IBM Data Science Professional Certificate Specialization *June 2019*

CAREER BREAKS

- **Career break to study and write (Full-time)** Madrid, Spain
Voluntary resignation to study and refocus my interests *February 2022 - December 2022*
 - Setting up two servers, learning about server infra, containers (docker, kubernetes) and networking
 - Running an Ethereum node and several docker stacks for personal use (Nextcloud, VPN, etc..)
 - Solving smart contract auditing CTFs like Ethernaut, Capture the Ether and Damn Vulnerable DeFi
 - Learning solidity and delving into smart contract security, multisig wallets, the EVM and more
 - Writing at length about topics like data privacy, cryptocurrency investments, my home server setup, etc..
 - Pivoting to software development, system administration, networking, linux servers, cloud and consulting
 - Coding small CLI tools, telegram bots and other utilities and posting them on my github
 - Further developing my personal website and started to write a book

PROJECTS & BLOG

View all my articles y projects.