

# Daniel Alonso

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Location: Singapore

## INTRODUCTION

Software engineer focused on Python development, backend systems, and cloud infrastructure. Experienced in building scalable applications, automating workflows, and designing cost-effective architectures. Skilled at bridging development and operations with CI/CD, AWS, and containerisation. Passionate about writing clean, maintainable code and helping teams deliver faster and more reliably. Through [Crow Tech Pte. Ltd.](#), I provide consulting in software, data, and infrastructure for companies seeking lean, effective solutions.

## SKILLS SUMMARY

- **Programming languages:** Python, SQL, Bash, JavaScript, Go, R, HTML/CSS/Tailwind CSS
- **Data/ML:** Pandas, NumPy; modelling/ML; Metabase; PostgreSQL, MySQL, SQL Server, ClickHouse, DynamoDB
- **Cloud/DevOps:** Docker, Kubernetes, Terraform, Ansible, GitHub Actions, Linux, AWS
- **Frameworks:** FastAPI, Django, Node.js, React, Streamlit, REST, GraphQL
- **Practices:** Agile/Scrum, Jira, code reviews, documentation
- **Other:** Cost optimization, automation, technical writing
- **AI/Blockchain:** n8n, LLM APIs; blockchain/DeFi (power user)

## 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 visualisation, 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
  - Performed financial data modelling/predictions and learned to code

## WORK EXPERIENCE

- **Crow Tech Pte. Ltd.** Singapore (remote)  
*CEO (Full-time)* *September 2024 - Present*
  - Advised startups/SMEs on Python backends, AWS/Kubernetes, and cost controls
  - Built and maintained production services; established CI/CD, IaC (Terraform/Ansible), and monitoring
  - Reduced a client's manual ops time 8-10 hrs/week with automated GitHub actions workflows
  - Built AI pipelines to support chatbots and automated lead outreach operations through (AI powered) phone calls
- **Neolux Energy** Madrid, Spain (remote)  
*Intern → Backend developer → Tech lead (Full-time)* *January 2023 - Present*
  - Cut infra/service spend by 1-2K EUR/month via self-hosting and right-sizing
  - Built Python backends with Django/FastAPI (REST/GQL); owned schema design and integrations
  - Deployed and hosted with Docker, Traefik, and Cloudflare; improved reliability and release speed
  - Managed AWS (EKS, EC2, S3) and CI/CD with GitHub Actions; Performed code reviews
  - Built internal Streamlit tools and React UIs to improve operations efficiency 200%
- **Populate** Madrid, Spain (remote)  
*Python developer & Data scientist (Full-time)* *September 2021 - February 2022*
  - Built a data-integrity pipeline in Python with Great Expectations for public-procurement datasets
  - Shipped Metabase dashboards (SQL + native UI) and Streamlit apps for stakeholders
  - Improved a TensorFlow model's accuracy by 10% and tuned complementary scikit-learn models
- **Cervecería Nacional Dominicana** Santo Domingo, Dominican Republic (remote)  
*Data scientist (Full-time)* *March 2020 - August 2020*
  - Modeled sales data with pandas/PySpark to forecast demand and segment clients
  - Clustered customers by product mix to target niches; deployed/tuned models on Azure Databricks
- **Referencia Laboratorio Clínico S.A.** Santo Domingo, Dominican Republic  
*Python developer & Lead data scientist (Full-time)* *August 2019 - March 2020*
  - Automated genetic-testing workflows, boosting productivity 15-20x
  - Built regex-driven ETL and databases from raw text; performed analysis of genetic sequence data
- **Seguros Sura** Santo Domingo, Dominican Republic  
*Vehicle insurance subscription analyst (Full-time)* *April 2019 - August 2019*
  - Built and fixed an incomplete VBA-based quoting system that increased team quoting speed 2x

- **Sainz Tutoring**  
*Mathematics, programming & physics tutor (Part-time)*
- **Business Computer POS**  
*IT Technician (Full-time)*
- **Alonso & Colado SRL**  
*Marketing manager (Full-time)*

Santo Domingo, Dominican Republic  
*November 2016 - May 2019*

Santo Domingo, Dominican Republic  
*May 2015 - October 2015*

Santo Domingo, Dominican Republic  
*January 2014 - August 2014*

## CERTIFICATIONS AND DIPLOMAS

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

## CAREER BREAKS

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- **Career break to study and write (Full-time)**  
*Voluntary resignation to study and refocus my interests*  
Madrid, Spain  
*February 2022 - December 2022*
  - Built a two-node home lab and containerised services with Docker Compose; learned Kubernetes fundamentals and networking (reverse proxy, VPN, WireGuard).
  - Ran an Ethereum node and completed smart contract CTFs (Damn Vulnerable DeFi, Ethernaut, Capture the Ether); studied Solidity, multisig wallets and EVM internals.
  - Automated personal workflows (CLI tools, Telegram bots) and documented work via technical writing on my website.

## PROJECTS & BLOG

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**View all my articles and projects.**