Daniel Alonso

Senior Software Engineer

contact

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Singapore

skills

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
Claude Code, Codex, GitHub Copilot, n8n, LLM APIs, OpenRouter, Hermes; blockchain/DeFi

languages

Native Spanish, English
Basic Malay, Dutch, Italian

certifications

HashiCorp Certified: Terraform Associate (003)
HashiCorp · Jan 2025

AWS Certified SysOps Administrator - Associate
Amazon Web Services · Jan 2025

AWS Certified Developer - Associate
Amazon Web Services · Jan 2025

AWS Certified Cloud Practitioner
Amazon Web Services · Jan 2025

AWS Certified Solutions Architect - Associate
Amazon Web Services · Dec 2024

profile

Software engineer focused on Python, backend systems, and cloud infrastructure. Builds scalable applications, automates workflows, and designs cost-effective architectures. CEO of Crow Tech Pte. Ltd., providing consulting in software, data, and infrastructure.

work experience

Senior Software Engineer — Jun 2026 – Present
Finalto Asia · Singapore (hybrid) · Full-time

CEO — Sep 2024 – Present
Crow Tech Pte. Ltd. · Singapore · Self-employed

- Advise startups and SMEs on Python backends, AWS/Kubernetes and cost control
- Build and run production services with CI/CD, IaC (Terraform/Ansible) and monitoring
- Built AI pipelines for chatbots and phone outreach; saved a client 8-10 hrs/week of manual ops

Intern → Backend developer → Tech lead — Jan 2023 – May 2026
Neolux Energy · Madrid, Spain (remote) · Full-time

- Led backend development with Django/FastAPI (REST/GraphQL); owned schema design and integrations
- Ran AWS (EKS, EC2, S3), Docker, Traefik and CI/CD; cut spend by 1-2K EUR/month
- Built internal Streamlit tools and React UIs for the operations team

Python developer & Data scientist — Sep 2021 – Feb 2022
Populate · Madrid, Spain (remote) · Full-time

- Built a data-integrity pipeline with Great Expectations for public-procurement datasets
- Shipped Metabase dashboards and Streamlit apps; improved a TensorFlow model's accuracy by ~10%

Data scientist — Mar 2020 – Aug 2020
Cervecería Nacional Dominicana · Santo Domingo, Dominican Republic (remote) · Full-time

- Sales forecasting and customer segmentation with pandas/PySpark on Azure Databricks

Python developer & Lead data scientist — Aug 2019 – Mar 2020
Referencia Laboratorio Clínico S.A. · Santo Domingo, Dominican Republic · Full-time

- Automated genetic-testing workflows, boosting lab productivity 15-20x
- Built regex-driven ETL and databases from raw text; analysed genetic sequence data

Vehicle insurance subscription analyst — Apr 2019 – Aug 2019
Seguros Sura · Santo Domingo, Dominican Republic · Full-time

- Built a VBA quoting system that doubled the team's quoting speed

education

Master in Statistics for Data Science — Sep 2020 – Sep 2021
Universidad Carlos III de Madrid · Madrid, Spain

Bachelor's degree in Mathematics and Actuarial Science — Aug 2015 – Oct 2019
Instituto Tecnológico de Santo Domingo · Santo Domingo, Dominican Republic

career break

Career break to study and write — Feb 2022 – Dec 2022
Voluntary resignation to study and refocus my interests · Madrid, Spain

- Built a two-node home lab with Docker Compose, a reverse proxy and WireGuard
- Ran an Ethereum node, completed smart contract CTFs and wrote about it on dac.sg

learn more

Full CV: dac.sg/cv **Blog:** dac.sg/blog **Projects:** dac.sg/projects