`MPhys Graduate`

Nelson Rebelo

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Data analyst with a physics background and a passion for using Python, SQL, and BI tools to turn raw data into meaningful insights. Experienced in data automation, dashboarding, and large-scale analysis, I thrive on improving efficiency, uncovering trends, and delivering data-driven solutions that make a measurable difference.

Experience

Convergint Intern
08/2024 - 09/2025

`Intern` Data analytics & engineering

`Responsibilities`

- Converting and optimising large complex datasets to improve accessibility and reduce action time between esctors
- Working with teams in the UAE, Germany and USA to increase efficiency and communication across different sales and data teams on an international scale.
- Created suggested search applications to waiting times on data validation with large datasets.
- Automated sales sheet to dramatically reduce time between invoices being given and being completed on systems.

`Tech Stack` Typescript, Java, Python, Excel, MatLab

Undergraduate Researcher *University of Sussex & Paul Scherrer Institute*
09/2020 - 07/2024

`N2EDM Masters & Bachelors` Data analysis

`Responsibilities`

- Coding: Aggregated data from various file types and processed to generate multiple graphs for comprehensive analysis.
- Project Management: Planning, executing, and managing a large-scale project, including setting objectives and timelines
- Agility: Becoming adept at a new coding language in a very short time period

`Tech Stack` Python, C++, Typescript, advanced skills using Excel and Word, Data engineering

Online Server Hosting & Maintenance *freelance*
Present

- Cloud hosting: Host an online server through cloud systems to ensure fast performance
- Refactored and optimized existing code for better performance and maintainability
- Debugging: Identified and resolved server issues, ensuring efficiency for our users

`Tech Stack` Typescript, Javascript, SQL (Azure, GCP)

Projects

Portfolio -> *nylsonn.github.io*

- **DroneImaging — Geospatial Image Analysis** – Processed and interpreted drone imagery using computer vision and ML techniques for mapping and environmental insights. *(Python, Computer Vision, ML)*
- **Open Data Analytics — UK Road Safety Dashboard** – Developed an interactive Dash + Plotly dashboard with PostgreSQL pipelines and Dockerized deployment for UK road collision data. *(Python, Dash, Plotly, PostgreSQL, Docker)*
- **Project-ComBot — Pokémon Utility Discord Bot** – Created an automation bot for replay analysis and stats tracking via Google Sheets integration and custom commands. *(Python, Discord API, Automation)*