

Nelson Rebelo

+44 7915 040091

nelsonrebelo220502@gmail.com

github.com/Nylsonnn

Dedicated physicist with extensive programming and data engineering expertise, passionate about leveraging my skills to create innovative solutions and enhance efficiency. My strong foundation in physics, combined with my proficiency in data programming, enables me to tackle complex problems and drive influential improvements. I am eager to share my passion and contribute to a more efficient and effective environment for all.

Experience

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

Physics Teaching Intern *XTSE internships*

06/2024 - 07/2024

Teaching Observations, lesson planning and creation

Responsibilities

- Created and planned detailed lesson plans, incorporating effective instructional strategies and assessment methods.
- Assisted in delivering lessons and engaging students in interactive learning activities.
- Learnt how different ideas and subjects are taught based on age

Convergent Intern

08/2024 - 09/2025

Intern Data analytics & engineering

Responsibilities

- Converting and optimising large complex datasets to improve accessibility and reduce action time between escors
- 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

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)

Education

MPhys (2:1) University of Sussex

07/2024

Additional activity

University Society management2020-2024

- Organisation of society events
- Liaising with businesses in order to create interactive and accessible events for all members
- Managed society members in order to ensure all aspects of the society are run correctly

Languages

English: Native
Portuguese: Native