

Daniel Cooper

Contact

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LinkedIn:

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Skills

- Interpersonal and communication skills developed working in a small team.
- Experienced in Python both in education and as a hobby, with some experience using C for high performance parallel code.
- Time management and organisation while organising and running mentoring sessions for over 10 students based abroad.
- Compete in Kaggle competitions, a data analysis competition platform.

Profile

Full stack software developer with experience in programming, machine learning, physics, and data science.

Work Experience

Software Developer

Lumina Learning, November 2025-Current

Work in a small team in both legacy code bases and modern frameworks, including PHP, JS, TS, React.

Education

MSci (Hons) Physics (1st)

University of Bristol, September 2021–June 2025

Relevant modules: Advanced Computational Physics, Mathematical Physics, Practical Physics (data analysis project)

A Levels

UTC Reading, 2019–2021

*A*A*A*A* in Maths, Further Maths, Physics, Computer Science*

Projects

AI particle physics simulations. *University of Bristol, 2024-Present*

Master's project using machine learning to generate background data for Large Hadron Collider experiment (LHCb) using TensorFlow, providing large improvements over traditional simulation methods.

Public transportation app. *Personal project, 2024-Present*

Created web app using Bus Open Data Service API to track and show bus locations and details, managing an SQL database to store location data. Available at https://github.com/danielthomascooper/bods_api.

Exoplanet transit measurement. *University of Bristol, 2023-4*

Determining exoplanet properties using time series analysis from the TESS satellite, successfully identifying and analysing three exoplanets.

Other experience

[Online volunteer tutoring](#), *University of Bristol*

September 2023-April 2024

Planned and delivered online physics lessons to grammar school students based in Pakistan. Learnt to create engaging presentations, communication skills, and time management to organise lessons in different time zones.