

Technical Skills

- **Programming & Data:** Python (NumPy, Pandas, Matplotlib), LaTeX, Slurm job scheduling, data visualisation, automation scripting
 - **Data Science:** Machine learning fundamentals (supervised/unsupervised, ensembles), statistical modelling, large dataset processing
 - **Laboratory:** Spectrometry, handling of radioisotopes, safety protocols, experimental planning, instrumentation setup & calibration
 - **Tools & Software:** Enzo simulation software, Git, Excel, Unity (basic game development)
 - **Communication:** Technical report writing, collaborative research (local and remote), clear presentation of findings
-

Education

BSc Physics with Honours – *University of Edinburgh* — 2024

- **Dissertation:** Analysed metal enrichment in dark matter mini halos using Enzo simulations; developed Python/Slurm scripts for large-scale data collection & pattern analysis (redshift, metallicity, generational trees).
- **Focus areas:** Spectrometry, astrophysics, condensed matter physics.
- **Key achievements:** Designed, planned, and executed computational experiments using supercomputers; integrated programming with theoretical analysis.

Early Education – *New College Lanarkshire* — 2017–2018

- Higher/National 6: Mathematics (A), Physics (A)
 - National 5: Biology (A), Physics (A), Chemistry (A), Mathematics (A)
-

Projects

- **Gamma & X-Ray Spectrometry** – Conducted experiments using fluoresced radiation from radioisotopes, analysed energy spectra, and identified emission characteristics.
 - **Machine Learning Exploration** – Completed online training in core ML techniques including supervised/unsupervised learning and ensemble methods.
 - **PID Control Systems** – Designed proportional–integral–derivative control circuits with custom software for temperature control platforms and LED matrices.
-

Work Experience

Chef – Redford Barracks | Mar 2025 – Present

- Managed kitchen operations under strict time and safety protocols.
- Trained and supervised team members, optimising workflow for peak periods.

Chef – The Chanter | Jan 2024 – Mar 2025

- Coordinated meal preparation for high-volume service; maintained quality and consistency.

Chef – Shout! The Scottish Music Experience | Apr 2022 – Jul 2022

- Supported event catering, adapting quickly to changing requirements.

Chef – Wetherspoons | Jun 2021 – Sept 2021

- Operated within fast-paced environment, maintaining health & safety standards.
-

Interests

- **Music** – Pianist since age 14, with experience in private teaching.
 - **Game Development** – Creating interactive projects using Unity engine.
-

References

Available on request.