

Skills

|                        |                                                                                                                                |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Programming            | Python, SQL, Pandas, NumPy, Flask, Bash.                                                                                       |
| Data Engineering       | ETL Pipelines, PostgreSQL, Relational Databases, Database Design, Data Modelling, Data Ingestion, Data Cleaning.               |
| Data Science           | Machine Learning, Statistical Analysis, Data Visualisation, Feature Engineering, Topic Modelling, Natural Language Processing. |
| Infrastructure & Tools | Linux, Git, Docker, Proxmox, Nginx, VS Code, Excel, Microsoft Office, LaTeX.                                                   |
| Professional Skills    | Analytical Thinking, Problem Solving, Communication, Teamwork, Quantitative Analysis, Technical Documentation.                 |

Education

|                                                                                                                                                                                                      |              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| City St George's, University of London - MSc Data Science                                                                                                                                            | 2026–Present |
| Relevant Topics: Machine Learning, Statistical Modelling, Database Systems, Data Engineering, Data Mining, Data Visualisation, Big Data Processing.                                                  |              |
| University College London - BSc Theoretical Physics                                                                                                                                                  | 2021–2025    |
| Relevant Modules: Computational Physics (Python, Pandas, NumPy, Matplotlib), Physics Group Project (Machine Learning for Crystallography), Mathematics Methods I–III, Statistical Physics of Matter. |              |
| Chislehurst and Sidcup Grammar School                                                                                                                                                                | 2014–2021    |
| A-Levels: Mathematics, Computer Science, Physics                                                                                                                                                     | A*, A*, A    |
| AS-Level: Further Mathematics                                                                                                                                                                        | B            |

Projects

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| Automated Data Acquisition Pipeline and Analysis Platform (Link)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | October 2025 – December 2025 |
| <ul style="list-style-type: none"><li>Designed and implemented a <b>Python</b>-based <b>ETL pipeline</b> that collected, transformed, and stored over <b>45 million</b> online forum posts and comments in <b>PostgreSQL</b>.</li><li>Developed scalable <b>data-ingestion</b> processes with emphasis on reliability, maintainability, and efficient database storage.</li><li>Designed <b>SQL</b>-based analytical workflows to investigate large-scale behavioural and discussion trends.</li><li>Built a <b>Flask</b> web application to expose analytical insights through a user-friendly interface.</li></ul> |                              |
| Machine Learning Research                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | January 2025 – March 2025    |
| <ul style="list-style-type: none"><li>Conducted a literature review examining applications of <b>deep learning</b> and <b>convolutional neural networks</b> in crystallography.</li><li>Contributed to the development of a <b>CNN</b> model capable of classifying crystal structures with <b>82% accuracy</b>.</li><li>Presented findings and technical recommendations within a collaborative academic project.</li></ul>                                                                                                                                                                                         |                              |
| Home Infrastructure and Networking Lab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | October 2025                 |
| <ul style="list-style-type: none"><li>Built and administered a home server environment using <b>Proxmox VE</b> to manage virtual machines and containers.</li><li>Configured <b>Nginx</b> reverse proxy services to provide secure access to self-hosted applications.</li><li>Deployed <b>Pi-hole</b> for network-wide DNS filtering and monitoring.</li><li>Implemented storage solutions using <b>TrueNAS</b>, improving data accessibility and redundancy across the local network.</li></ul>                                                                                                                    |                              |

## Certifications

### CS50: Introduction to Computer Science, Harvard University

December 2024 – July 2025

- Covered **algorithms**, **data structures**, memory management, **databases**, and **web application** development.
- Completed coursework involving **C** programming, **Python** development, **SQL**, and software engineering fundamentals.

## Work Experience

### Retail Assistant, Iceland Foods

May 2025 – Present

- Delivered high-quality **customer service** in a fast-paced retail environment while balancing full-time post-graduate study.
- Processed deliveries, replenished stock, and maintained product availability.
- Picked, packed, and prepared online customer orders while consistently meeting **fulfilment accuracy** and timing targets.
- Assisted customers with product enquiries, issue resolution, and general store support.
- Collaborated with colleagues during peak trading periods to ensure efficient store operations and achievement of daily targets.
- Supported **inventory management**, stock rotation, and loss-prevention procedures in accordance with company standards.
- Maintained compliance with health, safety, and food-handling requirements.

### Tutor, Physics & Mathematics

January 2023 – April 2023

- Delivered **one-to-one tuition** in Mathematics and Physics to students aged 16–19.
- Explained complex **quantitative concepts** in a clear and accessible manner.
- Adapted lesson plans to individual student needs, resulting in **measurable academic improvement**.

### Co-Founder & Session Coordinator, South East London Badminton

March 2026 – September 2026

- **Co-founded** and organised a community badminton group, coordinating activities for a growing membership base.
- Planned and scheduled regular sessions, managing **venue bookings**, attendance records, and participant communications.
- Promoted events through online channels and member networks to increase participation.
- Liaised with venue staff and participants to resolve scheduling and operational challenges.
- Strengthened **leadership**, **communication**, **organisation**, and **problem-solving** skills through the management of a volunteer-led community initiative.