

Data Engineer and Analyst specialising in building data integration layers, data pipelines, and automations within an Azure-focused environment. Skilled in Python, SQL, Docker, and Postgres, with a proven ability to transform complex data sources into robust semantic models for BI and analytics. Holder of a 1st-class honours degree in Economics with Data Science and a CMI L4 Qualification in Management and Leadership, eager to apply technical expertise to support public service objectives.

Work Experience

April-Present 2025 Ecommerce Executive, Motohaus Powersports

- **Act as the sole data and infrastructure engineer**, owning data governance, analysis, and insight generation. Transformed fragmented data management into unified, automated processes, aligning with the Civil Service behaviour of 'Changing and Improving' by consistently seeking to enhance data systems.
- **Collaborate directly with non-technical stakeholders and end-users** to capture requirements, improve adoption of new data systems, and translate complex analysis into clear, actionable insights, demonstrating the 'Communicating and Influencing' behaviour.
- **Designed, developed, and deployed a multi-layer data integration pipeline** using Python, SQL, and Docker, hosted on a dedicated server, showcasing skills transferable to an Azure environment. This system automates ETL processes, prepares data models for BI development, and provides critical infrastructure for procurement and website operations.
- **Engineered a robust data architecture** to transform, combine, and exploit complex data from multiple sources. Established a PostgreSQL database as a central source of truth, preparing semantic data models and improving data quality, which aligns with the technical requirements for creating scalable models for management information.
- **Led on data analysis process improvements**, performing mass exploratory data analysis, cleansing, and documentation of production systems. Identified flaws in manual processes and implemented standardised, automated practices that enhanced service delivery and supported data-driven decision-making.
- **Promoted modern development and 'Delivering at Pace'** by containerising applications with Docker, implementing unit and integration testing with 'pytest' to ensure product reliability, and managing deployments with 'justfiles' for reproducible environments.

May-August 2023 Production Assistant, Thunderbird Skin

- Handled diverse roles at a skincare manufacturer, contributing to team problem-solving.

May-August 2021 Independent House Renovation

- Took initiative to renovate my dad's house, liaising with estate agents, planning and coordinating a schedule of work and delegating where necessary. Resulted in a rise of the property's valuation from £180,000 to £210,000.

Technical Skills

- **Data Transformation & Analysis:** Python (Pandas, NumPy, SQLAlchemy), SQL (PostgreSQL, SQL Server), data validation for ingest to conform to semantic models.
- **Data Engineering:** Data modelling (semantic models for BI), ETL pipeline development, data architecture design (experience relevant to Medallion architecture).
- **Cloud & Infrastructure:** Proficient with Docker and container orchestration; experience with bare-metal server administration transferable to cloud environments like **Azure**.
- **Databases:** Advanced DQL in SQL Server and PostgreSQL, and DML/DDL in PostgreSQL.
- **BI & Visualisation:** Experience preparing data models for BI development; familiar with principles of visualisation and semantic model creation relevant to tools like **Power BI**.
- **Analytics:** Descriptive, predictive, and prescriptive analytics; exploratory data analysis, statistical modelling (regression), and ML operations (MLOps) design.
- **Leadership & Continuous Improvement:** Skilled in leading data projects, influencing stakeholders, and applying continuous improvement principles to enhance data processes and systems.

Education

2021 – 2024 1st BSc (Hons), Economics with Data Science, University of Kent

- **Year 3:** Economics Dissertation, Financial Economics, Mathematical Economics, Game Theory for Economics and Business, Econometrics I: Cross-Sectional and Panel Data, Econometrics II: Time-Series, Behavioural Economics.
- **Year 2:** Microeconomics, Macroeconomics, Introduction to Econometrics, Introduction to Time-Series Econometrics, Computation and Modelling for Economists, Big Data and Machine Learning.
- **Year 1:** Principles of Economics, Mathematics for Economists, Statistics for Economics, Introduction to Object-Oriented Programming, Programming for Artificial Intelligence, Data Analysis for Economists, Strategy and Games.
- **Economics Dissertation:** Panel data research project into the negative externalities of Airbnb on the local Labour Market, undertaken at the ZIP code level with data from the USA. Made great application of Exploratory Data Analysis, Extract Transform Load processing and regression analysis using Python, R and SQLite.

2020 – 2021 BSc (Hons) Economics with a Foundation Year, University of Plymouth

- **Foundation Year (First):** An Introduction to Economics, Introduction to Academic Writing, Introduction to Business and Accounting, Research Skills, Supervised Research Project.

2016 – 2020 Secondary Education – Independent Candidate, Norwich School

- A Levels: Mathematics, History, Psychology
- IGCSEs: A*- B, including English & Maths, 7 Total

Professional Development

2021 - 2024 University of London Officers' Training Corps

- Completed part-time officer training with the Royal Military Academy Sandhurst University Officer Training Corps, earning a Chartered Management Institute leadership and management qualification.
- Developed leadership, teamwork, and decision-making skills under pressure by leading a section of 8 cadets in complex exercises, coordinating logistics, and ensuring safety in dynamic environments.
- Gained experience in planning, communication, and responsibility for team performance — skills I continue to apply in technical and collaborative work.

Personal Hobbies and Interests

- I love sci-fi - star wars, star trek, the expanse, etc. - and am also getting back into fantasy.
- Previously active in milsim communities and occasionally play airsoft.
- I have a hobby server which I like to play around with, and when I have the time I use it for my NixOS passion project.
- Active in LGBTQ+ community events including Pride and other queer events.
- Passionate about music, especially electronic genres such as techno and hardstyle, and enjoy attending live events and festivals.
- For wellbeing, I enjoy hiking and dancing. I'm also keen to explore historical european martial arts.