

Data Engineer and Analyst specialising in building data integration layers and automations, implementing devops practices and production ready infrastructure. Skilled in Python, SQL, Docker, Postgres, and Linux systems administration, with a 1st-class honours degree in Economics with Data Science and a CMI L4 Qualification in Management and Leadership.

Work Experience

April-Present 2025 Ecommerce Executive, Motohaus Powersports

- **Lead data engineering and analysis initiatives** as the company's sole data specialist, responsible for data governance, building scalable data models, and transforming complex data into actionable business insights.
- **Partner with commercial and technical stakeholders**, including senior leadership, to translate business requirements into robust data solutions, manage project expectations, and communicate complex analytical findings to non-technical audiences.
- **Engineered a scalable, end-to-end data integration layer** and semantic hub using Python, PostgreSQL, and Docker. This system automates data processing for over 10,000 items, replacing a 5-hour weekly manual task with a reliable daily job and establishing a single source of truth for critical business data.
- **Designed and prototyped an MLOps pipeline for demand forecasting** using advanced statistical modelling (Deep-VAR neural networks) to predict sales trends. This involved designing a full system architecture with services for cross-validation, training, and prediction to enhance inventory management.
- **Perform in-depth exploratory data analysis (EDA)** to document production systems, identify process flaws, and inform the development of standardised, data-driven practices.
- **Implement and administrate containerised production environments** on remote Linux servers using Docker Compose, ensuring reliable and scalable deployment of data services.
- **Champion modern software development best practices**, including version control (Git), unit/integration testing with 'pytest', and creating a shared internal Python library to promote reusable, maintainable, and robust code.

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 Engineering & Orchestration:** Proficient in designing and building functional ETL pipelines and data models using **Python**, **SQL**, and **Docker**. Experienced in orchestration via Docker Compose in production Linux environments.
- **Data Science & Statistical Modelling:** Strong knowledge of statistical and machine learning model design, including **Time-Series Forecasting**, **Regression**, and non-parametric methods (Ensemble, Neural Networks). Practical experience designing MLOps architecture for cross-validation, training, and prediction.
- **SQL & Databases:** Advanced proficiency in **SQL** (PostgreSQL, SQL Server), including complex queries (DQL), data modelling (DDL), and manipulation (DML).
- **Data Analysis & Visualisation:** Highly skilled in data manipulation, cleansing, and analysis using **Pandas** and **NumPy**. Experience creating reports and visualisations with **Matplotlib** and **Seaborn**.
- **Python Ecosystem:** Extensive experience with data science and backend libraries including Pandas, NumPy, Scikit-learn, Pytest, and SQLAlchemy.
- **Infrastructure & DevOps:** System administration of **Debian Linux** servers (local and remote). Expertise in containerisation with **Docker** (Compose, Networking) and version control with **Git**.
- **Stakeholder Management:** Excellent communication and ability to work cross-functionally, translating complex requirements between technical and commercial teams.

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.