

Data Engineer and Analyst specialising in translating business needs into technical solutions by designing, building, and automating data systems and processes. Skilled in Python, SQL, Docker, and Linux system administration, with a 1st-class honours degree in Economics with Data Science and a CMI Level 4 Qualification in Management and Leadership.

Work Experience

April-Present 2025 Ecommerce Executive, Motohaus Powersports

- **Act as the sole data and infrastructure engineer**, owning data governance and translating business needs into technical solutions by consolidating fragmented data management into unified, automated processes.
- **Serve as a key liaison between technical execution and business operations**, collaborating directly with non-technical stakeholders and end-users to capture requirements, define business processes, and ensure solutions address real-world needs.
- **Designed, developed, and deployed a critical data integration layer** featuring ETL processes and a PostgreSQL database. This system automates data entry 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 product data.
- **Conducted in-depth gap analysis of existing systems** by performing mass exploratory data analysis and data cleansing. Identified and documented systemic flaws in manual data entry processes and implemented new standardised practices to ensure data accuracy and integrity.
- **Engineered an automated data entry solution for non-technical users**, gathering user requirements, developing the system, and producing extensive training materials and documentation to ensure successful adoption and independent operation.
- **Championed modern development and testing practices**, introducing containerised 'pytest' unit and integration testing to improve the reliability of deployments and support robust user acceptance testing.
- Administrate **Docker compose development and production environments** on a bare-metal Linux server, including the data integration layer and an SFTP server to provide stock level data to external partners.

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

- **Python**: Functional programming, pytests, packaging, Pandas (data manipulation, highly proficient), NumPy (maths), regex (data validation and complex filtering), SQLAlchemy (databases), matplotlib/seaborn (data visualisation).
- **Docker**: Networking (bridges, ipvlan, etc.), compose specs, developer environments (pycharm), SSH installations from GitHub.
- **Databases**: Advanced DQL in Postgres and SQL Server. DDL, DML in Postgres.
- **Debian, Arch, NixOS** – System administration, both locally and on remote dedicated servers. Development, production, and lab environments. Virtual Machines and containers.
- **Networking**: DNS, NAT, VPNs (Tailscale, Wireguard), OAuth2.
- **Data Analysis**: Exploratory data analysis, clustering.
- **Data Engineering**: Data modelling, measure design, functional pipelines, input validation, logging.
- **Data Science**: Statistical modelling (linear regression), non-parametric modelling (Ensemble methods, neural networks), Machine Learning Operations (MLOps): Cross-validation, training, and prediction architecture design.
- **Economics**: Microeconomics, game theory, constrained optimisation.

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.