

A self-taught and highly motivated Data Engineer and Analyst specialising in building data integration layers and automations, implementing devops practices and production ready infrastructure. Skilled in Python, SQL, Docker, and Linux systems administration, with a 1st-class honours degree in Economics with Data Science. Proven ability to partner with stakeholders to unlock the full potential of data and drive meaningful change.

Work Experience

April-Present 2025 Ecommerce Executive, Motohaus Powersports

- **Act as the sole data and infrastructure engineer**, taking full ownership of data governance, analysis, and automation to consolidate fragmented data management into unified, reliable processes.
- **Partnered directly with non-technical stakeholders and end-users** across customer service and finance to understand their workflows, capture requirements, and improve adoption of automated solutions, ensuring that new systems addressed real business needs.
- **Designed, built, and deployed a production data integration layer** featuring automated ETL processes and a central PostgreSQL database. This system serves as critical infrastructure, automating data entry and controlling website listings for over ten thousand items, transforming a 5-hour manual weekly task into a reliable daily job.
- **Championed and embedded modern development best practices**, introducing containerisation with Docker, version control with Git, and implementing ‘pytest’ for unit and integration testing to ensure product reliability and prevent regressions.
- **Empowered the customer service team by developing a simple, user-friendly spares upload system** with robust input validation and logging. This eliminated manual data errors, standardised data entry, and freed up significant team resources, fostering cross-functional standard operating procedures.
- **Conducted in-depth exploratory data analysis and statistical modelling** to diagnose and quantify systemic data quality issues in the company’s ERP system (QuickBooks). I then communicated these complex findings and their business impact to senior management in plain English to drive strategic correction.
- **Promoted reusability and scalability** by creating an internal Python library, centralising common integration functions and testing to improve maintainability and standardise development.
- **Administered Docker Compose development and production environments** on a remote bare-metal Debian server, including the data integration layer and an SFTP server to provide stock level data to dealers.

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:** Highly proficient in functional programming, ‘pytest’ (testing), packaging, ‘pandas’ (data manipulation), ‘NumPy’, ‘regex’, ‘SQLAlchemy’ (databases), ‘matplotlib’/‘seaborn’ (visualisation).
- **SQL:** Advanced DQL in PostgreSQL and SQL Server. DDL and DML in PostgreSQL.
- **Cloud & DevOps:** Docker (Networking, Compose), ‘bash’ (build bootstrapping), Git (Version Control), Linux System Administration (Debian, Arch, NixOS), CI/CD workflows.
- **Databases:** PostgreSQL, SQL Server, pgAdmin4.
- **Data Engineering:** Data Modelling, ETL Pipelines, Input Validation, Logging, Automation.
- **Data Analysis & Science:** Exploratory Data Analysis, Statistical Modelling (Linear Regression), Non-parametric Modelling (Ensemble Methods, Neural Networks), MLOps architecture design (cross-validation, training, prediction).
- **Networking:** DNS, NAT, VPNs (Tailscale, Wireguard), OAuth2.

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.