

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 degree in Economics with Data Science and a CMI L4 Qualification in Management and Leadership.

Work Experience

April-Present 2025 Ecommerce Executive, Motohaus Powersports

- Act as the sole data and infrastructure engineer in the company, owning data governance, analysis and insight generation within the company - consolidating fragmented data management into unified, automated processes.
- Developed, tested, and deployed a data integration layer featuring ETL processes, website listing control, and a PostgreSQL database for configuration, input validation, and reference data management. Administered with PGAdmin4 over a tailscale VPN for secure, user-friendly access. This fully automates and controls data entry and website listings for thousands of items in a rapidly shifting ecommerce environment, and transforms previously manual inventory and accounting systems into a visible, queryable, and configurable automation.
- Performed mass exploratory data analysis, cleansing, and documentation of production systems. Identified flaws in data entry processes, collated information from within and outside of the organisation, and implemented standardised practices.
- Implement modern development practices, packaging and installing python code into independent Docker container environment in development, testing, and production, with pinned version control. Perform unit and integration testing to ensure product reliability and prevent regressions, ensuring a "known state".
- Promote reusability and scalability in software development with an internal python library, centralising testing and maintainance of common snippets and integration functions.
- Administrate development and production environments with Docker Compose, including a data integration layer and an SFTP server to provide stock level data to dealers. Implemented on a remote bare-metal server.
- Collaborate directly with non-technical stakeholders and end users to capture requirements, improve adoption of automation, and ensure that solutions address real business needs. Liase with technical and non-technical representatives from external stakeholders on data collaboration.
- Conducted an RnD project to design ML pipelines for demand forecasting and stock order prediction with cross-validation, training, and prediction services.

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, modelling, data definition and measure design.
- **Mathematics** – Microeconomics, game theory, constrained optimisation, set theory & propositional calculus, lambda calculus, linear algebra, probability & statistics.

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, ... - and am also getting back into fantasy, currently watching wolf king on Netflix.
- 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.