

Data Engineer and Analyst specialising in building data integration layers, ETL processes, and automations. Proficient in Python, SQL (PostgreSQL and MS SQL Server), and Docker, with a strong foundation in data modelling, DevOps practices, and infrastructure management. Eager to apply a 1st-class honours degree in Economics with Data Science and a proactive learning mindset to a growing data team.

## Work Experience

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### April-Present 2025 Ecommerce Executive, Motohaus Powersports

- **Act as the sole data and infrastructure engineer** in the company, taking ownership of data governance, analysis, and automation to consolidate fragmented data management into unified, reliable processes.
- **Collaborate directly with non-technical stakeholders and end-users**, including finance and customer service teams, to capture requirements, improve adoption of automation, and translate business needs into technical solutions.
- **Architected and implemented a scalable data integration layer** featuring automated ETL processes and a central PostgreSQL database. This system serves as a single source of truth, processing and validating data before loading it into critical business systems and **automating listing controls for over ten thousand products**.
- **Designed and maintain robust data models and storage solutions**, using Python and advanced SQL to ensure data quality, integrity, and governance across production systems.
- **Perform mass exploratory data analysis, cleansing, and documentation** of production data, identifying systemic flaws in manual data entry and implementing standardised, automated practices to improve accuracy.
- **Implement modern DevOps practices**, using Docker and Docker Compose to create version-controlled, reproducible environments for development, testing, and production on a bare-metal Linux server.
- Promote **reusability and scalability** by creating and maintaining an internal, tested Python library for shared functions, installed as a package in ETL services to centralise and standardise code.
- Administrate **development and production infrastructure**, including a data integration layer and an SFTP server, managing container networking and secure access with a Tailscale VPN.

### 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

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- **SQL**: Advanced DQL in Postgres and MS SQL Server. DDL, DML in Postgres. Proficient with complex queries for data transformation and analysis.
- **Python**: Functional programming, Object Oriented Programming, pytest (unit & integration testing), packaging, Pandas (data manipulation), SQLAlchemy (Core), regex.
- **Data Engineering**: ETL/ELT pipeline design, data modelling, data quality & governance, input validation, logging, process automation.
- **DevOps & Infrastructure**: Docker (Compose, Networking), Linux System Administration (Debian, Arch, NixOS), Git, CI/CD principles, shell scripting.
- **Microsoft Stack (Familiarity & Eagerness to Learn)**: Foundational knowledge of MS SQL Server querying; eager to develop expertise in the full MS tech stack including SSIS and Power BI.
- **Data Analysis**: Exploratory data analysis, data cleansing, visualisation (matplotlib/seaborn).
- **Networking**: VPNs (Tailscale), DNS, NAT fundamentals.
- **APIs**: Academic understanding and experience of REST APIs and OAuth2; keen to gain practical experience in designing and developing them.

## Education

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### 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

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### 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

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- 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.