

Data Engineer and DevOps practitioner with hands-on experience building automated pipelines, containerized deployments, and production-ready infrastructure. Skilled in Python, SQL, Docker, and Linux systems administration, with a 1st-class degree in Economics with Data Science and a CMI L4 Management qualification

## Work Experience

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

- Championed quality by consolidating fragmented data management into unified, automated pipelines, eliminating manual data errors and enabling reliable reporting across departments.
- Designed and deployed ETL pipelines to integrate business systems (QuickBooks, Linnworks), reducing recurring data errors and ensuring consistent, testable data flows.
- Reduced a two-hour weekly data cleaning and loading task into an automated daily process, significantly improving product listing accuracy in a dynamic e-commerce environment.
- Planned ML pipelines for demand forecasting and stock order prediction, including data ingestion, validation, training, and prediction service design, ensuring future testability of models.
- Implemented CI/CD workflows by integrating GitHub with modular Docker Compose builds, applying version control strategies to manage dev/staging/production environments.
- Applied functional programming principles and containerization to build robust, testable deployments; introduced unit testing and began implementing integration tests to increase coverage and reliability.
- Worked directly with end users across departments to gather requirements, translate them into technical specifications, and validate solutions against real business needs.
- Administered Linux-based production environments, configuring secure networking (VPNs, Docker bridge/ipvlan, DNS) and managing secrets to enforce safe deployments.
- Introduced basic monitoring and logging of production jobs, ensuring visibility of pipeline execution and a foundation for future observability improvements.

### 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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- **Python** – Functional/Lambda programming, pytests, packaging, Pandas (very proficient), NumPy, SQLAlchemy, matplotlib/seaborn.
- **JavaScript/NodeJS** – Web scraping (puppeteer).
- **Git/GitHub** – project workflow/version control. Build source.
- **Debian, Arch, NixOS** – System administration, both locally and on remote dedicated servers. Development, production, and lab environments. Virtual Machines and containers.
- **Docker** – Networking (bridges, ipvlan, etc.) Compose specs, developer environments (pycharm), GitHub CI.
- **Postgresql** – Querying and data transformation (Also with SQL server), DDL, views, administration, pgadmin 4.
- **Networking** – DNS, NAT, VPNs (Tailscale, Wireguard), OAuth2
- **Windows 10/11** – Basic system administration, office tooling, programming (linux preferred).

## **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 Tranform 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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- Developing personal services on a Hetzner dedicated server with NixOS, including self-hosted accounting, file hosting, and financial planning tools, with future plans to integrate the Monzo API.
- Active in LGBTQ+ community events including Pride and queer cultural gatherings, reflecting a commitment to inclusivity and diversity.
- Passionate about music, especially electronic genres such as techno and hardstyle, and enjoy attending live events and festivals.
- For wellbeing, I enjoy long walks and pole fitness, and I'm keen to explore historical martial arts (HEMA).