

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

- Act as the sole data and infrastructure engineer in the company, consolidating fragmented data management into a unified, automated system and driving DevOps best practices from the ground up.
- Engineer and maintain multi-layer ETL pipelines in Python, centered on PostgreSQL, including preprocessing for data validation and cleaning, ingestion into database tables, and transformation into downstream production systems.
- Build reproducible and modular environments with Docker Compose, deploying containerised services to a remote Debian 12 bare-metal server configured from scratch, with separate development and production workflows.
- Debug and monitor containerised ETL jobs using structured logging, cron scheduling, and SFTP integration, enabling investigation of runtime issues and proactive improvements to stability and observability.
- Package Python projects as independent ETL services, each dependent on a shared internal Python library (hosted on GitHub), with automated installation of shared dependencies during container builds.
- Apply testing practices with Pytest, including unit tests for ETL services and integration tests for shared libraries, with tests executed in isolated containers for reproducibility.
- Automate development workflows with Justfiles, orchestrating complex multi-file Docker Compose builds and reducing manual error in environment setup.
- Collaborate directly with stakeholders and end users to gather requirements, adapt solutions to business needs, and document pipelines and deployment processes to support ongoing maintenance and knowledge sharing.
- Designed ML forecasting pipelines, planning ingestion, validation, training, and prediction services; pivoted focus to data engineering and reliability improvements due to upstream data quality issues.

### 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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- **Programming & Data:** Python (pandas, NumPy, regex, ETL development), SQL (PostgreSQL), data validation & transformation, custom Python package development.
- **DevOps & Infrastructure:** Docker, Docker Compose, Linux server administration (Debian 12 bare-metal), container orchestration for development and production environments, Git (branching, issues, code reviews).
- **Testing & Debugging:** Pytest (unit & integration testing), structured logging, cron-based job orchestration, runtime monitoring of containerised services.
- **Automation & Tooling:** Justfiles for multi-layer Compose orchestration, GitHub for version control & package hosting.
- **In Progress / Next Steps:** CI/CD pipelines with GitHub Actions, Infrastructure-as-Code (Ansible, Terraform), advanced secrets management (HashiCorp Vault), observability stacks.
- **Additional:** Machine learning pipeline design (forecasting models), business system integrations (QuickBooks, Linworks).

## 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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- 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).