

Michael Barley

Data Engineer | Python | SQL | AWS | Kubernetes | Terraform |

Docker | CI/CD | DevOps

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PROFILE

Data Engineer with over 6 years of experience and a first class Computing degree. Builds and maintains data pipelines in TypeScript, Python and SQL on AWS, using Docker, Kubernetes, and Terraform. Experienced across the full data lifecycle from ingestion through to production monitoring and observability, with a focus on automation, infrastructure as code, CI/CD, and DevOps practices.

EXPERIENCE

Salesfire

Middlesbrough

Data Engineer

July 2023 — Present

Build and maintain real-time data pipelines ingesting billions of behavioural events across 700+ ecommerce retailers using TypeScript, SQL, and Snowplow

Engineer and optimise a ClickHouse data warehouse powering client reporting, analytics, and shopping optimisation at scale

Built an identity resolution system using Neptune ML to match anonymous shoppers across devices and sessions into unified customer profiles

Develop data infrastructure supporting AI-powered product recommendations serving millions of daily shoppers

Build reporting pipelines for client-facing performance metrics and conversion attribution

Use Python for data analysis, debugging, and incident investigation

Deploy and manage AWS infrastructure using Terraform, Docker, and Kubernetes

The Verve Group UK

Darlington

Software Engineer

TECHNICAL SKILLS

LANGUAGES

Python SQL

TypeScript

CLOUD & INFRA

AWS Terraform Docker
Kubernetes

DATA

ClickHouse Snowplow
Neptune ML MySQL

PRACTICES

CI/CD DevOps IaC

FRAMEWORKS

Laravel Vue.js

October 2022 — July 2023

Built and maintained a SaaS platform for financial advice firms using Laravel, Vue.js, MySQL, and AWS

Mabo

Middlesbrough

Software Engineer

May 2019 — September 2022

Developed Python scrapers to extract and process product data from ecommerce sites at scale

Built a product feed management and optimisation platform for ecommerce retailers on AWS

Engineered feed optimisation rules engine, Google Shopping CSS integration, and Google Ads API connectivity

Built reporting dashboards and internal tooling supporting 350+ client accounts and £40M+ in annual ad spend

EDUCATION

Teesside University

First Class Bachelor's degree, Computing

2015 — 2018