

Oliver Burden, Data Scientist

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SUMMARY

Analytical data scientist with over 10 years of experience in database management and business intelligence. Proficient in SQL Server, Tableau, and Python, with a knack for automating processes to enhance efficiency. Instrumental in developing a bespoke ETL system and optimising database performance, leading to significant improvements in report generation speed. Adept at translating complex data into actionable insights, demonstrating a strong capability to meet the analytical needs of organisations. Ready to leverage unique skills to contribute to a data-driven culture.

WORK EXPERIENCE

10/2024 – Present	Career Break,	Leeds, UK
	<ul style="list-style-type: none">In the wake of my redundancy, I took the initiative to manage a major groundworks project at home while dedicating myself to the development of my cloud-based skills. Throughout this period, I crafted a proof-of-concept 'data product' that leverages Microsoft Purview, thereby gaining hands-on experience in Azure services, data governance, advanced Python (covering API integration and error handling) and cloud automation. This proactive endeavor significantly fortified my skills in previously identified areas for improvement.	
03/2020 – 10/2024	Production Support Analyst, Total System Services (TSYS)	york, uk
	<ul style="list-style-type: none">Maintained and enhanced SQL Server and Tableau environments to ensure optimal system stability and performance.Identified and rectified production issues through thorough root cause analysis and implemented effective fixes.Supported and optimised a bespoke loading system that automatically ingested files upon being dropped onto the file server, utilising configuration tables for refined control of the ETL pipeline.Utilised the bespoke system to efficiently ingest source files into the data warehouse.Automated file uploads to a GCP bucket employing Python, streamlining the data transfer process.Collaborated on deployment projects leveraging GitHub for effective version control.Revamped the Tableau automated process by replacing PowerShell with Python to interact with the Tableau API, enhancing reliability and ensuring platform independence.Developed a Windows service to capture and log missing SQL jobs, facilitating proactive detection and root cause investigation, which significantly improved team response times and overall system reliability.Worked closely with stakeholders to implement an automated workflow for refreshing Tableau data sources and downloading reports, successfully eliminating dependency on business analysts and reducing report maintenance requirements.	

08/2016 – 03/2020

Business Intelligence, Total System Services (TSYS)

york, uk

- Acted as SQL Server (2012, 2016, 2017) and Tableau (10 to 2023) Application Administrator.
- Analysed SQL processes and proactively adapted them to ensure solutions remained robust.
- Designed and implemented stored procedures while optimising database performance through tuning strategies, thereby improving efficiency and reducing query execution times.
- Compiled technical documentation for processes and procedures, promoting knowledge sharing and ensuring consistency within the team.
- Orchestrated change management initiatives to guarantee seamless code updates.
- Automated Tableau processes using TabCMD, streamlining reporting workflows.
- Provided strategic support, development, and optimisation solutions for business needs, assessing options such as multi-dimensional cubes to ensure the most effective approaches while minimising support requirements.
- Identified risks within team processes and established mitigation strategies to minimise potential issues.
- Mitigated support dependencies by automating Tableau using Tableau's TabCMD.
- Leveraged data profiling skills to transition from a multi-dimensional cube to a flatter data structure, which resulted in faster load times, improved maintainability, and enhanced efficiency for Tableau reporting.

07/2011 – 08/2016

Database Specialist, Health & Social Care Information Centre (HSCIC)

leeds, uk

- Delivered database application administration and optimisation, ensuring data integrity and compliance within NHS systems.
- Served as the lead developer on the Nesstar project.
- Managed data quality issues and ensured timely data submissions to the portal, thereby mitigating risks and meeting production deadlines efficiently.
- Constructed test procedures in T-SQL to ensure indicators were accurately loaded onto the platform and that the system functioned as designed.
- Administered workflows outside direct control by implementing proactive monitoring, engaging stakeholders, and automating solutions, ensuring seamless operations and timely project completion.
- Championed the development of an automated data loading solution for NHS Nesstar, significantly reducing manual effort from days to hours through the integration of Java-based automation.

01/2010 – 10/2010	Information Analyst, Health & Social Care Information Centre (HSCIC)	leeds, UK
	<ul style="list-style-type: none"> Enhanced the versatility of an in-house Indicator Packaging System. Designed, developed, and maintained a database for bespoke information about indicators. Translated written mathematical specifications into SQL code for indicator development. Produced comprehensive technical documentation detailing procedures and processes. Streamlined application complexity by developing a single dynamic SQL stored procedure to replace multiple existing procedures, thereby optimising functionality. Automated data cleaning and database import routines through developed VBA modules, eliminating manual tasks and significantly improving the quality and accuracy of source data. Created a user-friendly front-end interface for immediate validation of indicators, catering to non-technical users. 	
03/2011 – 06/2011	VBA Developer, ASDA	Leeds, uk
	<ul style="list-style-type: none"> Engaged to design and implement a streamlined process for acquiring and managing a Walmart dataset in Microsoft Access. 	
09/1999 – 10/2009	Director / Laboratory Scientist, Mushroom Advice & Analysis	leeds, uk
	<ul style="list-style-type: none"> Developed and monitored a multivariate calibration model for compost analysis. Provided IT support and served as a data domain expert. Achieved significant reductions in organisational overheads. Instituted IT procedures and methodologies to enhance operational efficiency. Analysed a large, complex dataset of chemometric data to innovate a sustainable multivariate calibration model, successfully implementing NIR calibration as a validated method for mushroom compost analysis. This innovation enabled the laboratory to operate on an efficient schedule, allowing it to function just one day a week instead of five, resulting in marked cost savings. 	

EDUCATION

02/2014 – 05/2016	University of Dundee master's degree, data science	Dundee, UK
1995 – 1999	Sheffield Hallam Bachelor of Science, Biomedical Science	sheffield, uk

SKILLS

SQL Server

SSIS

ETL Pipelines

Tableau

Git

PowerShell

MDX

Visual Basic

Java

octopus

Excel

VMware

Process Optimization

Documentation

Automation

Stakeholder Management

Support

T-SQL

tSQLt

Data Warehousing

SSRS

Python

VBA

SVN

R

Microsoft Visual Source Safe

SSMS

PC Networks

crystal reports

Monitoring

Performance Tuning

Communication

Requirement Gathering