Louis Othen

Passionate data enthusiast, who is hardworking with a thirst for knowledge, always wanting to learn, explore, and help others.

DEFRA	Aug 23 – Dec 23

Operational Research Data Scientist/ Engineer

Working for the Northern Ireland Directorate (NID), supporting the implementation of the Windsor Framework; a policy to goods moving between Great Britain and Northern Ireland, remedying complex constraints of UK and EU law since Brexit, whilst upholding the Good Friday Agreement. All work involved managing complex policies, relationships, data, and stakeholders across multiple government agencies and numerous private consultancies.

- Data lead in migration, research, and analytics of data platforms from Palantir Foundry to Azure Synapse and Databricks for data relating to goods moved between countries.
- Contributed to running the Employee wellbeing report for all staff at the Northern Ireland Directorate of DEFRA.
- Line management of two analysts, providing mentorship, assignment, support, and guidance.
- Data Analytics, Engineering and Science activities over datasets vital to the implementation of the Windsor Framework
- Using R, python, Pyspark, Palantir Foundry, Azure Stack including Synapse and Databricks, SQL, and Power BI, following a simple AGILE methodology.

Ministry of Defence (MOD)	Oct 22 – Feb 23

Data Scientist

Within the Submarine Delivery Agency (SDA), applying Data Science to support continuous journey, transforming usage and quality of data across the organisation, and overarching MI & Data Analytics strategy. Support project Resolution team nationwide through data gathering, analysis and modelling.

- Conduct statistical analytic techniques and procedures, including trend analysis, predictive modelling, and machine learning algorithms against naval datasets, to uncover new insights and test capabilities of Palantir, as well as training up a new data team.
- Using SQL, Python, R, Pyspark, Git, Palantir Foundry.
- Mentor junior members of the team with advice, guidance, and support in terms of programming, methods, and best practice.
- Data Science lead in establishing capabilities of Data Science on Palantir platform and help set up new team to work on submarine data, reporting to multiple stakeholders to report outcome of results and insights.

Department for Work and Pensions (DWP)	Jan 22 – Jun 22

Data Scientist

Within the Universal Credit (UC) Data Science, designing, and delivering and performing data science and analytics for the UC Digital service. Full project life cycle involvement from gathering data, to explaining to a non-technical audience.

- Data processing activities including Data Wrangling and NLP (Natural Language Processing).
- Principal Data Scientist working on the RESTART Scheme – alongside research development - aimed at folks to indicate training getting them back into the labour market.
- Support development of assigned feature team(s) nationwide through data gathering, analysis and modelling using multiple sources.
- Using HIVE SQL, Linux, R, Python, Pyspark, Qlik Sense, Amazon S3, Glue and Sage maker, Azkaban, Git, JIRA, Confluence and AGILE Methodologies.

Transparity	Oct 21 – Dec 21

Data Consultant

Within a new Data Practice, collaborating with clients to create science, analytics, engineering and architecture solutions, Using the Microsoft Azure suite of services including Databricks, Data Factory, DevOps, Synapse.

- Using SQL (Spark, T-SQL, PostgreSQL), Linux, R, Python, Pyspark, Terraform, Git.

Zurich Insurance	Sep 19 – Sep 21

Data Scientist

In UK Predictive Analytics, my role consists of developing data driven solutions for difficult business challenges towards research and development as well as insurance risk mitigation. This included projects such as using deep learning algorithms to predict grade listed status of properties in the UK, as well as processing Companies House data that would have taken over 9 years to do by hand.

- Performing data mining, statistical analysis, predictive modelling, and programming of machine and deep learning modelling algorithm techniques against both large, small, commercial, and open datasets; From Logistic Regression to Neural Networks.
- Providing research and development opportunities into new data sources and practices, also conducting experiments to test hypotheses.
- Data processing activities including Data Wrangling (ETL, ELT), and NLP (Natural Language Processing).
- Mentor junior team members with guidance, and support in terms of programming, methods, and best practice.
- Using SQL (Spark, T-SQL, PostgreSQL), Linux, R, Python, Pyspark, Azure Databricks/Data Factory/DevOps.

Contact Information

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07378347694

LinkedIn Profile
For further history

GitHub Profile

Technical Skills

- o Data Science
- o Machine Learning
- o Predictive Modelling
- o Data Engineering
- o Data Analytics
- o DevOps

Languages
non-exhaustive

Python
- o TensorFlow/Keras/NLTK/gensim
- o Scikit-Learn/XGBoost/OpenAI/ LLM's
- o Pandas/Geopandas/Polars
- o Pyspark/Koalas
- o Flask/Streamlit
- o Matplotlib/Seaborn/Plotly

SQL (Tables, Views, Indexing, Stored Procedures, Database Administration)
- o T-SQL
- o PostgreSQL/Oracle
- o Azure
- o HIVE/Spark

R
- o Dplyr/SparkR
- o Ggplot2/Plotly
- o Caret/XGBoost
- o RShiny/RMarkdown/Waiter
- o Leaflet/Ggmap

- o Docker, Kubernetes, Terraform
- o API's, JSON, XML
- o HTML/CSS/JavaScript/VBA
- o Java, MATLAB, and C# (Exposure)

Zurich Insurance	Nov 17 – Sep 19

Data Engineer/ Data Developer

Working in the Data Architecture and Analytics team, my role was to design, construct, test and deploy ETL Data pipelines from various sources into progressive and live server environments, with associated DBA activities.

- Monitor and review existing management information, updating where necessary to identify any anomalies or discrepancies and ensure management and / or internal clients has access to up to date and accurate information.
- Independently collate and analyse operational data using pre-determined tools, methods and formats and make recommendations to support the department's decision-making process.
- Undertake investigations and inspections of data, processes, and practice in accordance with the established procedure to identify potential or actual compliance issues and recommend appropriate action.
- Provided mentorship for Junior Developers in terms of programming, methods, and best practice in SQL, SAS, SSIS, MS Access, VBA, Git, Jira Confluence, Bitbucket.

Computershare	Jan 17 – Nov 17

Data Analyst

As part of the future investment team, I collaborated with internal stakeholders to ensure timely, reconciled client reports and analysis. Supported product development, defining requirements, and conducting user acceptance testing. Implemented data process improvements. Key achievements include leading a £22 million project in stock and shares analysis. Additionally, played a crucial role in overnight data migrations between the team and colleagues in Australia.

- Utilising SQL, MS Excel, VBA, MS Access, SSIS.

South West Water	Oct 16 – Jan 17

SCADA Configuration Technician

Working on an assignment for the iOPS Alarm Optimisation Project. Working for the Wholesale Technical Support Services and working with the current members of the SCADA Configuration Team.

- Working on sewage pumping systems flow meter configuration to support management of environmental impact through failed assets.
- Support initiatives that agreed at the Alarm Strategy and Governance Group.
- Dealing with field-based operators from central office, building data fields in network areas.
- Analysing configuration data on and off the SCADA system (Artisan), highlighting any discrepancies to prevent future risk.
- Using SCADA systems, PSTN and microwave radio.
- Using MS Excel and SQL (Queries, Tables, Views, Stored Procedures).

KCOM	Jun 16 – Oct 16

Management Information Analyst

Providing MI reporting, Data Modelling and Analysis for Senior Managers, Stakeholders and other business Users of Calls, Ticket and Online Chat data.

- Gathering requirements for requests and developments of new and or existing MI reporting and visualisations.
- Presenting reports and communicating business logic to users at all levels of the business.
- Using SQL, MS Excel, PowerPivot, PowerBI and SharePoint.

Devon Partnership NHS Trust	Nov 15 – Jun 16

Information and Performance Analyst

Responding to ad-hoc report requests of performance information. Producing, maintaining, and developing regular reports for the entire Trust, to monitor performance against national and local targets.

- Identifying and recording data quality issues as well as supporting staff / teams in improving data quality issues
- To design, develop and automate data extraction and analysis facilitating production of reports for managers and clinicians to support the clinical, business, and operational needs of Psychology and Psychological Therapy Services.
- To provide development feedback to the providers of Improving Access to Psychological Therapy monitoring providers.
- Using SQL, SSIS, Microsoft Office applications (including Word, Excel, Access), SharePoint.

Cloud

Azure
- o Databricks
- o Data factory
- o Synapse Analytics
- o Machine Learning
- o DevOps
- o Data Lake
- o SQL Database
- o BLOB Storage
- o Virtual Machine (Exposure)
- o Azure Functions (Exposure)

AWS
- o S3
- o Sage Maker
- o Redshift
- o Glue

Palantir Foundry
- o Contour
- o Code Workbook
- o Code Repository
- o Quiver
- o Reporting
- o Documents
- o Object Explorer

GCP
- o Cloud SQL (Exposure)
- o BigQuery (Exposure)
- o Vertex AI (Exposure)
- o Data Fusion (Exposure)

Tools

- o Git, Bash, PowerShell, Linux
- o Jupyter Notebooks, IDLE VS Code, Google Collab, RStudio
- o PowerBI, QlikSense, Tableau, Looker
- o JIRA, Confluence, Bitbucket
- o SSMS, SSIS, SSDT
- o Agile Methodologies
- o PgAdmin, Oracle SQL Developer

Generative AI
(Large Language Models)
- o OpenAI: ChatGPT – Prompts/AI Assistant Builder/ API
- o Falcon – Prompts/python
- o Solar – Prompts/python
- o Gemma:2b – Prompts/python

- o Stable Diffusion - Image Creation
- o Generative Adversarial Networks (GAN's)(exposure)
- o CTGAN – Synth Data Generation
- o Ollama – LLM local running

Devon Partnership NHS Trust	Aug 15 – Jun 16

Prescribing Information Analyst

Working within the Medicines Optimisation Team, providing pharmacy prescribing information and analysis of each directorate from complex prescribing information systems, to show drug related cost and volume data into reports to inform decision making processes relating to Medicines Optimisation and prescribing.

- Maintain prescribing systems such as ePACT.net, Hospital Pharmacy Analysis System (HPAS), Abusable Drugs Investigational System (ADIoS).
- Produce reports on medicine related incidents reported on the Risk Management System.
- Collaborating with Associate Director of Medicines Optimisation, alongside pharmacists and technicians to develop and implement required items for pro-active analysis, assessment, and investigation of routine and controlled drugs.
- Using T-SQL, MS Excel, SSIS, MS PowerPoint.

Southwestern Ambulance Service	Feb 14 – Aug 15

Systems Support Officer

Reporting to the Business Systems Manager and consulting with System Development Managers, my position was to carry system and user configuration on ambulance dispatch system C3. Manage and maintain warning marker information, which include distressing and emotive issues requiring analysis. Extraction and analysis of status planning data from C3 and other areas as required.

- Using Excel (Tables, Pivot Tables, Charts, Formulas and Lookups)
- Conducting requests for user, ambulance, and radio configuration, whilst maintaining relevant databases
- Monitoring team email, post, and team phone line for requests. This included dealing with emotional and distressing requests where resilience required to act accordingly.
- Consulting with the rest of the trust for further requests or actions.
- Assist in maintaining records and filing systems, identifying issues that need immediate corrective action, or liaise with the A&E System Development Manager to discuss and resolve.

Southwestern Ambulance Service	Apr 12 – Feb 14

Project Support Officer

Reporting to the Project Support Office Manager and consulting with Project Managers, Contract Managers, Technical Services Managers, and other levels of senior management. Providing project support, creating financial reports, updating financial trackers including change control and risk register for multiple projects.

- Using Ms Excel, Ms Access, Ms Project
- Arranging telephone conferences and room bookings
- Domain name and SSL renewal administration and asset management whilst interacting with the project manager and system administrators.

Education and Training

Training Completed	Awarding Body	Year Obtained
IBM Generative AI for Data Scientists	Coursera	2024
DevOps Certification	AiCore	2024
MSc Computer Science & Big Data Analytics - Distinction	Wrexham Glyndwr University	2023
Google generative AI Fundamentals	Google Cloud	2023
Google Advanced Analytics Certification	Coursera	2023
Google Data Analytics Certification	Coursera	2023
Certificate in Data Science – Distinction	University of Winchester	2021
Azure AI & Data Fundamentals	Microsoft	2021
Level 4 Data Analyst Apprenticeship	Firebrand Training LTD	2020
Associate – Data Science and Big Data Analytics	DELL Technologies Proven Professional	2019
Level 4 Diploma in Data Analysis Concepts	BCS	2019
PRINCE2 Foundation in Project Management	E-Careers	2016
ITIL Foundation in Service Management	QA Ltd	2016