

# Jim Murphy

DATA SCIENTIST

London

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## About

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I am a data scientist passionate about deriving new insights by building integrated and intuitive solutions. My focus is on developing web based applications, data visualisation, interactive reporting and automating data pipelines to empower end users. Experienced at utilising cloud computing platforms for large scale processing as well as deploying and maintaining robust, user friendly analytics for use in production environments.

## Technical Skills

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### DATA SCIENCE

Interactive data visualisation, big data wrangling, APIs, text mining, machine learning, process automation, relational databases, web scraping, OAuth.

### SOFTWARE

RStudio, SQL Server, Tableau, Excel, Cloud computing architectures (Azure, Databricks, DataFactory), Bash, LaTeX.

### LANGUAGES

Adept user of R, SQL, Python (Pyspark)

Familiarity with Unix, Java programming, MATLAB, HTML, JavaScript

## Experience

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### National Audit Office

London, U.K.

DATA ANALYST

Sep. 2019 - Present

- Developed reproducible cloud based pipelines for cleaning and conforming incoming varied audit data into a standardised database using combination of DataFactory, Databricks and SQL.
- Introduced robust app user authentication using OAuth and Azure Active Directory in service wide R Shiny apps for large scale user tracking and security measures regarding data access.
- Deployed and maintained service wide audit automation analytic with 300+ users.

### Government Actuary's Department

Remote

DATA ANALYST (SECONDMENT)

Spring 2021

- Developed actuarial tools in Python Dash to increase speed and quality of salary modelling
- Introduced a small development team to effective version control using git to better manage deployments and collaboration on shared code.

### National Audit Office

London, U.K.

DATA SCIENCE INTERN

Aug. 2018 - Sep. 2019

- Built risk assessment Tableau dashboards for use by the audit team of the BBC reviewing risk in reversals and purchases in general ledger data.
- Developed an automated sprint report system using DevOps API, for review by my team to assess bottlenecks and progress against key objectives still in use today.
- Built application making use of web scraping, text analysis and visualisation to bulk confirm audit fees of NAO clients garnering interest from external audit institutions.

## Education

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### University of Liverpool

Liverpool, U.K.

MASTER OF PHYSICS (FIRST CLASS)

Sep. 2013 - Jul. 2017

- Making use of strong numerical and analytical skills, the ability to find underlying patterns in seemingly chaotic data allowed me to excel during my studies.
- Harnessed my ability to work effectively as part of a team or on an independent basis to deliver accurate results regardless of pressure or workload.
- In weekly report writing and lab work tasks I have enhanced my written and verbal communication skills allowing me to produce concise documents within strict time constraints.