

# ADAM RAWLES



## SKILLS

### Programming

- 5+ of experience both using and teaching the R programming language.
- Ability to construct and deploy complex machine learning platforms using both R and Python.
- Specialisation in deploying database-backed FastAPI REST APIs, utilising SQLAlchemy and Alembic.

### Data Analysis

- Highly skilled in data presentation, graphing and reporting.
- Extensive experience in data extraction from SQL databases and experience with database design and maintenance.
- Ability to take data analytics from the prototyping phase through the complete development cycle into production.

### Development

- Many years of experience using development-workflow tools including Git, Github and Azure DevOps.
- Experience creating and maintaining build and release pipelines with GitHub Actions, TravisCI and Azure DevOps.
- Specialisation in containerisation technologies such as Docker.

### Project Management

- Time, people and resource management skills developed through hands-on experience managing system development.
- Ability to work and manage effectively in teams utilising various collaboration platforms such as GitHub and Azure DevOps.

Adam Rawles

## CONTACT INFO

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🐙 [github.com/ARawles](https://github.com/ARawles)

For more information, please contact me via email.

## PROJECTS

### teacheR

A book aimed at beginners to the R programming language. Hosted at <https://teacher.arawles.co.uk>.

### opeRate

A book aimed at applying the fundamentals from the teacheR book to real data. Hosted at <https://operate.arawles.co.uk>.

### BMRSr

An R package that provides functions to better access the Balancing Mechanism Reporting Service API provided by ELEXON. Documentation hosted at <https://bmrsr.arawles.co.uk>.

*Last updated on 2022-04-21.*



## PROFESSIONAL EXPERIENCE

2021  
|  
Current

### Data Scientist

Guernsey Financial Services Commission

📍 Guernsey, CI

- Primary developer of a SupTech system that utilises AI modelling and analytics in financial regulation to identify areas of risk.
- Prototyped and productionised the machine-learning models that drive the system
- Developed and maintained the data storage solutions, using both SQL and NoSQL databases
- Designed and implemented the underlying infrastructure, relying on containerisation to provide scaling and flexibility
- Redeveloped and improved a complex model focusing on identifying Financial Crime risk
- Contributed to a project focused on improving data quality at the Commission

2019  
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2021

### Data Analyst

Guernsey Financial Services Commission

📍 Guernsey, CI

- Recreated and automated the generation of various data reports using R.
- Implented a completely custom R repository that utilised automatic-building tools and a RESTful API
- Further developed and delivered R training materials ([teacheR](#) and [opeRate](#))

2018  
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2019

### Graduate Data Analyst

ELEXON

📍 London, UK

- Performance Assurance Review team
  - Implemented a new risk simulation, utilising a Monte-Carlo methodology in R to better estimate the financial cost associated with specific risks.
- Market Analysis team
  - Automated and updated market reports, allowing them to be automatically published to the ELEXON website with custom HTML widgets to allow for greater user interaction.
  - Developed an R package to facilitate the extraction of energy-related data from the Balancing Mechanism Reporting Service API provided by ELEXON called BMRSr.



## EDUCATION

2014  
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2018



### **Cardiff University**

First Class Honors - BSc. Psychology

📍 Cardiff, UK

Project: An Evaluation of Spatial Representations of Order and the Efficacy of Online Studies

- Designed an online and lab-based version of a cognitive psychology experiment testing the relationship between actual and represented differences between items in a list.
- Extended the functionality of the developing PsychoJS software to run the experiment online.
- Analysed the difference in responses between the online and lab versions of the study as a secondary research topic.