

# 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.



## PROFESSIONAL EXPERIENCE

2021  
|  
Current

### Data Scientist

Guernsey Financial Services Commission

📍 Guernsey, CI

- Acted as the senior developer in a project aimed at utilising advanced modelling and analytics in financial regulation.

2019  
|  
2021

### Data Analyst

Guernsey Financial Services Commission

📍 Guernsey, CI

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

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>.

### faviconR

An R package providing a set of lightweight wrapper functions to the [RealFaviconGenerator.net](#) API, used to generate favicons. *Last updated on 2022-04-21.*

2018  
|  
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.
- Test team
  - Designed and executed test suites for a purpose-built in-house system
- First developed materials to teach R to beginners that would eventually become the [teacheR](#) and [opeRate](#) books.



## EDUCATION

2014  
|  
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.