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

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.

💼 PROFESSIONAL EXPERIENCE

2021
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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

- Implemented a new risk simulation, utilising a Monte-Carlo methodology in R to better estimate the financial cost associated with specific risks.
- 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.