

ADAM RAWLES



SKILLS

Data Science

I have 7+ of experience both using and teaching the R programming language.

I am experienced in applying various statistical methods with both R and Python.

I have designed and implemented multiple GPU-accelerated machine learning models using CUDA, PyTorch, Keras and sklearn.

I have exposure to different machine-learning hosting platforms, including HuggingFace and MLFlow.

Development

I have many years worth of experience as a Python-focused back-end developer, using a stack including tools such as FastAPI, SQLAlchemy and Pydantic.

I possess a strong theoretical and practical knowledge base which I have used to help train junior developers in many areas.

In my role as lead developer, I have a strong background in helping to plan sprints, assigning tickets and evaluating pull requests.

Despite being more experienced in back-end development, I am competent using TypeScript and Angular.

Dev Ops

I have many years of experience using development-workflow tools including Git, Github and Azure DevOps.

I have extensive experience creating and maintaining build and release pipelines with GitHub Actions, TravisCI and Azure DevOps.

I have a strong familiarity with many Azure cloud platforms, including App Services, Service Buses and API Management Layers.

Data Modelling

I am proficient in constructing and maintaining large scale data models based on microservice frameworks.

I am experienced in the use of object-relational mappers (ORMs), such as SQLAlchemy to bridge the gap between data models and code.

I have extensive experience creating and applying data and schema migrations using Alembic.

Adam Rawles

CONTACT INFO

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🐙 github.com/ARawles

For more information, please contact me via email.

PROJECTS

teacheR

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



PROFESSIONAL EXPERIENCE

2022
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Present

Senior Data Scientist

Guernsey Financial Services Commission 📍 Guernsey, CI / Wales, UK

- Acted as lead developer for a large scale project to create a new online applications portal.
- Acted as data expert to help with the MoneyVal inspection, focusing on data extraction and presentation to help answer queries.
- Worked with the Infrastructure team to design the underlying microservices to drive both the portal and future systems.
- Consistently achieved positive appraisal results since joining the GFSC.

2019
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2022

Data Analyst

Guernsey Financial Services Commission 📍 Guernsey, CI

- I was the lead developer for a project utilising machine-learning and advanced modelling to improve financial regulation.
- I developed and implemented a tool to flag problematic documents to supervisors based on a neural-network model.
- I designed and implented a completely custom R repository that utilised automatic-building tools and a RESTful API.
- I also further developed and delivered R training materials ([teacheR](#) and [opeRate](#)).

2018
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2019

Graduate Data Analyst

ELEXON 📍 London, UK

- I implemented a new risk simulation, utilising a Monte-Carlo methodology in R to better estimate the financial cost associated with specific risks.
- I 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.
- I developed an open-source 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

- I 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.
- I extended the functionality of the developing PsychoJS software to run the experiment online.