Matthew Rallison

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Personal profile

Data science generalist experienced in data engineering, modelling and analysis. Extensive knowledge of the digital healthcare landscape, currently working in clinical decision support at BMJ. Heroes include Ruth Millikan and Alan Turing.

Core Skills

- Data science: Python data science stack, database management and services (S3, BigQuery, SQL), RESTful APIs, Unix/Linux and cloud (GCP, AWS) environments.
- Data modelling: Data structures and data engineering, semantic web technology (RDF, SPARQL, Neo4j), pipeline development (Airflow, Docker), proprietary and open source data repositories, particularly in healthcare and biomedical research (SNOMED CT, ICD, OMOP Common Data Model, HL7 FHIR, UMLS).
- Organization and management: Line management responsibility, software development best practices (CI/CD), (Git) version control, technical documentation, project management tools (Jira, Notion).

Employment

BMJ
Health Data Scientist
December 2022 – Present

- Lead responsibility for architecture, data engineering and data pipeline development for BMJ Clinical Intelligence using a range of technologies (RDF, XML, S3, GCP services, Docker).
- Test data quality and integration against healthcare standards (HL7 FHIR, OMOP Common Data Model) and structured vocabularies (SNOMED CT).
- Management of one direct report working on Machine Learning and Large Language Model application development and deployment in healthcare knowledge provision.

Assistant Health Informatician
September 2021 – December 2022

Springer Nature
Data Analyst
January 2019 – January 2021

- Run complex XQuery and SQL queries, validate datasets for internal and external performance reports.
- Responsible for efforts in technical development and automation within the operations workflow.
- Working with finance, sales and technical teams, providing data analysis and visualisations on high priority projects.

Education

UCL
MSc Health Data Science, Distinction
2020 – 2021

- Taught modules included computational genetics, statistics for epidemiology and healthcare data governance.
- Dissertation project investigating the genomic impact on intellectual disability and associated comorbidities (IMAGINE ID).

The University of Edinburgh
MA (hons) Philosophy, First class honours
2012 – 2016

- Research interests in logic, mind and cognition.
- Simon Gray Prize for full marks in pre-honours logic.
- Edinburgh University Running Club Men's Captain 2015/16.

References
Available upon request.