DR. JACK WALTON

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Newcastle upon Tyne, UK

"PhD educated and analytical problem solver enjoys challenging and intellectually stimulating work"

Employment

Data Scientist, Trainer and Data Engineer

d Jumping Rivers Ltd.

iii 2020−Present

Notable Client Projects

aws AWS Lambda for parameterised PDF reports

Lead Developer

Created a custom container runtime to serve parameterised PDF reports via {rmarkdown}.

Automated deployment with GitHub Actions and Terraform.

■ Azure Databricks for ETL

Lead Developer

Administered databricks and wrote init scripts for R workloads.

Adapted existing ETL R scripts to write results to blob storage via {AzureStor}.

Responsibilities

- ♣ Taught over 200 hours of Python programming courses, with course difficulty ranging from "what is a variable?" to machine learning with sklearn.
- Employed Ansible and Terraform to manage, provision and configure client and internal infrastructure, working with a number of different cloud providers.
- © Collaborated on the development of a suite of R packages to standardise and simplify internal project management and automate recurring tasks.
- **git** Harnessed version control (primarily git) on all code-based projects, and used CI/CD tools to aid code stability and enforce good-coding practices.
- Used docker to deploy R applications in a stable and scalable environment.
- Used Ubuntu+i3wm as a day-to-day OS+wm, becoming confident performing all manner of duties from a CLI, scripting in bash, and using standard command-line tools such as ssh, grep, sed, vi, etc.
- Developed, curated, and delivered courses on the probabilistic programming language Stan, best-coding practices and how to implement them, and getting the most out of RStudio Connect as a data scientist.

Education

University of Newcastle upon Tyne, UK

PhD, Applied Mathematics

2016–2020

University of Newcastle upon Tyne, UK

Master of Mathematics, 1st Class

= 2012–2016

Additional Experience

- Regular contributor on stack overflow—answering over 125 questions, and reaching 145k users.
- Maintainer of jwalton.info, a programming blog and personal website which attracts 800-1000 unique monthly users, with $\sim 85\%$ of traffic acquired through organic search.

Worked as a tutor at Newcastle University's maths consultancy service; helping students and staff solve a broad variety of problems with maths and statistics.

Awards

Northumbrian Water Hackathon

P Best team solution

iii July 2019

UK Conference on Multiscale Biology

P Best poster award

⊞ April 2018

EPSRC

PhD project funding (3.5 years)

= 2016–2020