Andy Challis

Data Scientist

+44 7548688695

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andrewchallis@hotmail.co.uk

About me

Andy is extremely passionate about technology, particularly when it comes to investigating cutting-edge ideas and applications. Andy has a very strong analytical background which aids in his ability drive insightful change within a team. He also has strong leadership and teamwork skills as a result of playing lacrosse at a high level and captaining an undefeated team.

Interests

- Blogging on data science
- Playing with home automation
- Travelling
- Lacrosse
- Cooking

Skills

- Python
- R
- SQL
- Swift
- Javascript
- Git
- DevOps

Objective Statement

To design & deliver solutions using cutting-edge technologies that offer valuable insights to increase business value.

Education

2015-2016 M.Sci. First class, magna cum laude — Lancaster University
Majoring in Medical Statistics

2012-2015 B.Sc. First class, magna cum laude — Lancaster/Texas A&M
Mathematics & Statistics

2010-2012 College A*AAB — Sale Grammar
Specialising in Maths, Further Maths, Chemistry and Physics.

Awards

2012 Lancaster University Academic Scholarship.
2014 Texas A&M Honours Student.

Experience

2018 Consultant Senior Data Scientist — Capgemini

(Public Sector—SC clearance)

Created a production ready containerised Facial Recognition and Analysis API using Python's OpenCV, DLib and Flask. This was used as part of an application process to access the quality of images. Specifically if they adhered to ICAO standards for machine readable images. During this project I also created unit tests and a full web front-end as well as a mobile application developed in Swift.

Developed a custom suite of Python libraries to speed up development, such as connecting to our Jira instance, logging/interacting with Rocketchat and connecting to our database & incorporating commonly used functions/data types.

Worked with the platform team to push Continuous Integration with GitLab using Jenkins and Docker containers.

Technical lead on a scenario to engineer full-scale automated pipelines from inception through to beta phase, presented to users in a front-end tool.

Advising on implementation of coding standards across the lab.

2017 Consultant Data Scientist — Capgemini

(Water utilities)

Designed interactive mapping visualisations using both open source technologies for PoC and full-scale integration's with IBM's IOC for PoV which links the users' decisions to the operations.

Developed algorithms for detecting leaks in pipes using multiple data sources: pressure, flow, pipe attributes, environment and smart meters.

Mentoring junior staff and delivering 'lunch and learn' talks on hot topics.

(Public Sector—SC clearance)

Designed a data science competition (logo recognition in videos) for data-sciencechallenge.org which was sponsored by the client.

Created tutorials for ways in which to achieve an out-of-the-box baseline result using TensorFlow.

Curated images and videos for the competition from both paid-for and CC0 sources.

2016 Consultant Junior Data Scientist — Capgemini

(Public Sector)

Involved in architecting a data science platform that took advantage of JupyterHub, Docker Swarm, Hadoop, AWS and multiple kernels (Python, R, Julia, Scala etc).

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(Water utilities)

Developed reservoir prediction algorithms for predicting how long water in underground reservoirs will last depending on demand. We overlaid a cost model for electricity and fines to find an optimal solution for the life cycle of reservoirs.