



Andy Challis

Data Scientist



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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

Git

Statistics

LaTeX

R

DevOps

SQL

Python

Objective Statement

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

Education

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|-----------|---|----------------------|
| 2015-2016 | M.Sci. First class, magna cum laude
Majoring in Medical Statistics | Lancaster University |
| 2012-2015 | B.Sc. First class, magna cum laude
Mathematics & Statistics | Lancaster/Texas A&M |
| 2010-2012 | College A*AAB
Specialising in Maths, Further Maths, Chemistry and Physics. | Sale Grammar |

Awards

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

Experience

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|------|---|-----------|
| 2018 | Consultant Data Scientist
(Public Sector—SC clearance)
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. | Capgemini |
| 2017 | (Water utilities)
Designed interactive mapping visualisations using both open source technologies for PoC and full-scale integrations 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 CCO sources. | |
| 2016 | (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.
(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). | |