Huw Fulcher

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SKILLS

- Python – NumPy, scikit-learn, Keras, FastAPI, Django, Flask
- Web Development – JavaScript, TypeScript, Tailwind, PHP
- Web Frameworks – Laravel, Vue, NuxtJS
- Cloud Engineering (AWS) – Lambda, S3, Glue, EventBridge, CodePipeline/CodeBuild, Sagemaker, Redshift,
- DevOps – Packer, Terraform, Serverless, CloudFormation, Docker
- Proficient in software development principles & agile development methodology
- Some Solutions Architecture experience

EXPERIENCE

Lead ML/Data Engineer, Admiral Money (formerly Admiral Financial Services): Jan 2022 – Jul 2022
See details of previous role for Lead ML Engineer

Responsibilities
- Lead the Data Engineering team that was brought into the Data & Analytics department.
- Support Data Engineers pastorally in a restructure.
- Ensure the integrity of our data warehouse.
- Lead the high-profile migration of ~100 datasets from SAS to newly created data platform on AWS.

Achievements
- Improved Data Engineering team efficiency and morale by eliminating development blockers impeding migration process.
- Re-engineered faulty data engineering processing job to reduce runtime from 10 hours to 15 minutes.

Lead Data Scientist, Admiral Financial Services: May 2021 – Jan 2022

Responsibilities

- Leading the newly formed Data Science function to utilise Machine Learning in the lending process.
- Build an industry leading team of Data Scientists and MLOps Engineers.
- Empower the team to realise our company's objectives through Machine Learning.
- Establish our Data Science process, governance, tools and ways of working.
- Identify areas of value to unlock via Machine Learning.

Achievements

- Implemented an end-to-end MLOps platform on AWS in 4 months, enabling rapid deployment & redeployment of models.
- Coordinated a cross-group data sharing agreement in the last 6 months of a 3-year process. Agreement will enable cross-sell and advanced decisioning.
- Upskilled a team of graduates to effectively use Git and MLOps pipelines.

Data Scientist (Senior Consultant), Appnovation: Jan 2020 – May 2021

Responsibilities

- First Data Scientist for Appnovation tasked with developing and leading the new data specialism across advice, strategy formulation, planning and implementation.
- Responsible for establishing the data practice alongside existing Experience & Technology service lines through close collaboration with teams and clients to rationalise, direct and solve data problems in a holistic manner.

Achievements

- Identified radical shift in consumer behaviour due to COVID-19 crisis for a Belgian national retailer, allowing the client to quickly pivot operations to cater to new needs.

- Identified and created a high level data engineering solution for a global pharmaceutical company. The design involved combining web analytics data across multiple brand websites using AWS Glue, Redshift & Looker.
- Worked extensively with UX researchers to provide a global tyre brand guidance and insight into data-driven of a new service taken to market. Delivered a clear assessment of the possibilities and limitations of data-driven components to provide a roadmap for further development.

Data Scientist, Office for National Statistics: Sept 2017 – Jan 2020

Responsibilities

- Identify where improvements can be made to statistical processes using Data Science.
- Explore new concepts in Data Science that can be leveraged to produce statistics.
- Share knowledge of Data Science, Data Engineering and Software Engineering within the organisation to improve capability.

Achievements

- Improved Gradient Boosted Tree model in flagship system from 96% accuracy to 98%. Met regularly with non-technical product owner to explain changes and improvements.
- Used open-source data to produce a time-series model of Consumer Confidence to aid macro-economic statistics.
- Consulted on a high-profile project involving the creation of a new statistic on loneliness. Provided guidance on creation of ETL pipelines for geo-spatial data and produced a Python library for converting geo-spatial data to Machine Learning features.
- Regularly delivered highly demanded training seminars on Machine Learning and ETL pipelines in PySpark.
- Delivered guest lectures at Cardiff University on Data Science.

EDUCATION

Cardiff University – MSc Data Science & Analytics (Distinction), 2016-17

- Awarded a full scholarship based upon the strength of my application.
- Dissertation: Siaradus – Automatic Sentence Generation using Deep Learning.

Swansea University – BSc Computer Science (1st Class Honours), 2013-16

- Student Representative Yr 1 - 3
- Dissertation: Continuous Graph Visualisation.