Dillon O'Rourke

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Summary

Analyst in Ireland's Transmission System Operator. 3+ years professional experience. Professional experience using SQL, Tableau, Excel, Python and ETL pipelines. Knowledge of cloud-based platforms, statistics, and software development. Stakeholder and cross-functional engagement and project management experience.

Experience

Analyst, System Integrity

Eirgrid

Jan 2021 – Present (1+ years)

- Working as an analyst in a fast-paced, data-driven power system engineering team in the national transmission system operator delivering Irelands transmission outage plan/product.
- Planning and studying transmission system outage impacts on the grid. Delivered 80% of all outage plans from the team in the last few months.
- Managing a SQL based database with multiple data sets. Employing Python for scripting to extract, transform & load (ETL) data from the data base to interface with loadflow simulation software for 100% of case creations.
- Analysis of loadflow cases with 50+ substations using engineering judgement to test viability of and produce outage plans. Solved complex issues in cases and chaired x7 cross-functional/stakeholder engagement meetings and collaborate to discuss workarounds (e.g. to suit customer needs).
- Developed a Python product used by EirGrid: Development of Python scripting to automate quantitative data analytics in a previously manual process that saved 90% of time required during the workflow process.
- Wrote user guide documentation on the product mentioned above that makes the code x10 times easier to use.
- Hosting and chairing stakeholder engagement or cross-functional engagement calls and meetings with 20+ people on calls at times.
- Extracted data from databases and carried out analysis to create insights on the businesses performance and decreased the amount of outstanding outage driving work items by around 5%.
- Goal Setting meetings with manager & team leads. Set goals for the year ahead for myself and my team.

Analyst, Auctions Team

Eirgrid

Sep 2019 – Dec 2020 (1 year, 5 months)

- Designed, created, tested & consulted on the auction algorithm for the 1st and 2nd Renewable Electricity Support Scheme. (Software development for auction platform).
- Demonstrated technical functionality and behaviour of the algorithm verbally and using visualisation to stakeholders and project managers and influenced the algorithm design which saved 1000s by avoiding hiring of consultancy.
- Investigated and reported on the effects of using an alternate algorithmic approach to auctions that saves the company millions (1000000s) of euros each run per year.
- Organisation & interpretation of statistical information (historical power generation etc) to provide clarity.
- Analysed sensitive market/auction data and produced visualisations to answer questions with 10% quicker turnarounds.
- Generated numerical and visual reports post analysis for regulatory bodies with 10% quicker turnarounds.
- Carried out capacity auctions in the auctions team and ran predictions and pre checks using Python to model and test the auction and excel to run checks which reduced the number of unexpected outcomes each time (<1 unexpected offers cleared)
- Goal Setting meetings with manager & team leads. Set goals for the year ahead for myself and my team.

Co-Cordinator & Court Monitor

Jump Zone

Jun 2017 – Aug 2019 (2 years, 3 months)

- Managed and coordinated staff on the courts during shifts for 40% of the time I was there.
- Hosted 100s of birthday parties during my time there.

- Built upon my customer service and interpersonal skills during my time in the reception/café area greeting and serving product to customers.
- Management experience as court coordinator.

Research Assistant

Trinity College Dublin

Aug 2018 - Feb 2019 (7 months)

- Researched the synthesis of enhanced (plasmonic nanoparticle coated) surfaces and predicted performance increase of 30% on unconventional substrates.
- Invented Unconventional substrates to carry out a direct comparison with those from a commercial optics manufacturer which were much cheaper (saving 30%+) to make and were easier to store and ship.
- Synthesised functional Surface Enhanced Raman Spectroscopy substrates on fibrous materials which demonstrated superior SERS performances to that of the commercial substrates (around 30% cheaper).
- Co-authored a scientific paper which was successfully published in the Applied Physics Journal (here).
- Presented my work to the school of physics in TCD, see poster (here) and received a grade of 72%.

Education

Google Professional Certification, Data Analytics

Coursera

Dec 2021 – Mar 2022

- Final Grade: 95.73%
- Studied practices and processes used by a junior or associate data analyst in their day-to-day job.
- Created databases using MySQL and BigQuery to clean, process, analyse and extract data.
- Created Tableau visualisations and dashboards.
- Learned R for sorting, cleaning, filtering, running calculations on and visualising data.

Honours Bachelors (BA), Physics

Trinity College Dublin

Sep 2015 – May 2019

- Final grade: Second-class honour, first division (II-I).
- Studied computer simulation modules employing Python, physics & maths modules.
- Awarded a 1.1 in my final year Research Project & Thesis.
- Published a paper in a journal here. Received an offer from the head of physics to continue and complete a PhD.

Volunteering

First Aid Responder

Red Cross Youth

2015 – 2019

- Treated various injuries and how to respond to a wide variety of medical emergencies.
- Worked on and competed as a team, built friendships, and improved my communication skills.

Interests

Mixed-Martial Arts • Travelling • Photography • Gym • Space Travel • PC Building • Solving Puzzles • Cooking • Geopolitics

Skills

Research • Analytics/Analytical Skills • Problem Solving • Data Analytics • Project Management • Strategic Planning • Data • Python • Data Visualisation • SQL • Automation • Engineering • Data Sets • Tableau • Programming