

Jack Davidson

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Industries and summaries

- Financial Services:
 - Intelligent automation, electronic anti-money laundering, regulatory intelligence
 - ML modelling/pipeline development (NLP, topic modelling, sentiment analysis and classification models)
- Government:
 - AWS cloud solution design and implementation with DevOps and CICD
 - Developing EO geospatial processing/ML solutions utilising satellite imagery
- Transport/Infrastructure:
 - Statistical modelling and analytics
- Mining:
 - Inventory analytics and reporting solution design and implementation leveraging AWS, Tableau, Snowflake, Python, Airflow and dbt in agile CICD development framework using Git
- Healthcare:
 - End-to-end data engineering/model refinement and visualisation
 - Simulation/agent-based modelling

Education

The University of Queensland

Bachelor of Mathematics/Commerce

January 2015 – June 2019

Majors: Data Analytics & Operations Research/Finance

Professional Experience

Deloitte

January 2020 – Present

Consultant – Data & AI

- Designing, implementing, and managing AWS cloud solutions (ECR, S3, EC2, Aurora, ELB)
- Implementing geospatial solutions utilising Docker, PostgreSQL, TileDB, GDAL, PostGIS and Python for processing
- Implementation of production grade, end-to-end ELT pipelines and data models using dbt, Snowflake, Airflow and Jenkins
- Designing, implementing business intelligence solutions in Tableau/Power BI for various solutions

EY

November 2018 – December 2019

Consultant – Data & Analytics

February 2019 – December 2019

- Built Tableau and Power BI dashboards to streamline reporting and provide actionable insights for clients.
- Developed Intelligent Automation solution and dashboard to automate workflows using Blue Prism to reduce FTE effort and track realized benefits for credit, finance and risk divisions.
- Solved and developed an EAML solution using Python to web scrape data and perform NLP from structured/unstructured sources, ingest into a SQL database and construct packages for analysts.

Vacationer – Tax Technology & Transformation

November 2018 – February 2019

- Digital implementation, automation and transformation of clients' tax functions.
- Used RPA to automate clients' tax processes, lowering compliance time spent from days to under an hour.
- Developed Machine Learning POCs and documentation for proposals and future use cases.

Australian Road Research Board

November 2017 – April 2018

Intern – Future Transport Infrastructure

- Explored new types of structural information from underutilized data sources.
- Conducted research, analysed and visualised data in Python to derive new insights.
- Developed statistical models allowing bridges at risk to be identified providing a base for further research.