Ryan McGarity Data Engineer

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⊞ Profile

I am a data engineer with varied production experience spanning data science and machine learning domains. Passionate about using my time and skills to leave the world better than we found it.

💼 Professional Experience

Data Engineer, PowerChord, Inc. ⧉   08/2023 – present
- Produced a data mart storage system deployed across a serverless infrastructure to improve internal stakeholders routine processes (BigQuery, Snowflake, Cloud Run).
- Aggregated and normalized marketing data from multiple sources including Facebook, Google Ads, Criteo, and Bing, into dashboards (Looker, SQL).
- Led feasibility research to assess use cases for AI integrations (Vertex AI, PaLM2, OpenAI).
- Maintained distributed services across Google Cloud Platform (GCP).
- Collaborated with internal teams to understand and build meaningful dashboards, reducing the need for manual data requests (Looker, SQL)

Data Engineer, NavigatorCRE ⧉   01/2022 – 01/2023
- Built ETL and ELT pipelines with downtime alerts integrated into dedicated slack channels (Python pandas, SQLAlchemy, flask, requests).
- Ingested and normalized data across multiple sources and data types such as sFTP, Blob, MongoDB, SQL.
- Managed distributed systems across an Azure infrastructure (Functions, Pipelines, Pub/Sub, Queues).
- Collaborated with internal stakeholders to build a data mart to improve business intelligence report generation.
- Interpreted trends across large data sets and produced reports to drive business decisions (SQL, PowerBI).
- Refactored existing pipelines into a dedicated package that improved deploy time, reduced error rate, and enabled support for higher data volume (Azure Artifact).

Data Engineer, Healthcare Management Administrators ⧉   04/2019 – 12/2021
- Integrated with an enterprise resource planning suite to reduce accounting close time (Odoo, Python, SQL).
- Reduced transactional tasks with the implementation of data process workflows and efficient database management (Python, SQL).

🧠 Skills

Languages	Data Analysis	Cloud	Machine Learning
Python, SQL, Javascript, YAML, Go	Pandas, Numpy, Scipy, PowerBI, Looker	GCP, Azure, Cloud Functions	Vertex AI, PaLM2, skikit-learn, tensorflow

🎓 Education

M.S. Industrial Mathematical Modelling, Loughborough University   2017 – 2018 | Loughborough, U.K.

B.S. Mathematics, University of Washington   2015 – 2017 | Seattle, U.S.A.

📖 Publications

Comparison of image and data domain methods for three-material decomposition in dual-energy CT,
2017 IEEE Nuclear Science Symposium and Medical Imaging Conference (NSS/MIC) ⧉