

# Ryan McGarity


## Data Engineer

ryanmcgarity5@gmail.com • <https://flowcv.me/ryan-mcgarity> • <https://www.linkedin.com/in/ryan-mcgarity/>

### 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**, The Providencia Group  03/2024 – present

- Established Azure data ecosystem to standardize and store myriad business datasets. (Azure)
- Implemented distributed Azure services such as SQL, serverless functions, file stores, synapse, and virtual networks to provide secure & scalable data warehousing. (SQL Server, Python, Blob, Azure Data Warehouse)
- Built & maintained ETL/ELT pipelines, with robust scalability and monitoring. (Application Insights, Log Analytics)
- Provided mentorship around data engineering tools and principles to the data & analytics team.
- Enabled 600+ employees to view data relevant to them in a central location previously only available in disparate systems. (PowerBI, Fabric)

**Data Engineer**, PowerChord, Inc.  08/2023 – 03/2024

- Produced serverless data mart storage system to improve internal stakeholders routine processes (BigQuery, Snowflake, Cloud Run).
- Aggregated and normalized marketing data from multiple sources (Facebook, Google Ads, etc.), 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 insightful dashboards (Looker, SQL)

**Data Engineer**, NavigatorCRE  01/2022 – 01/2023

- Ingested and normalized data across multiple sources such as sFTP, Blob, MongoDB, SQL (ETL/ELT).
- 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 code into a dedicated business-specific package, standardizing pipeline builds (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 by implementing data process workflows and database management (Python, SQL).

### Skills

#### Languages

Python, SQL,  
Javascript, YAML, Go

#### Data Analysis

Pandas, Numpy, Scipy,  
PowerBI, Looker

#### Cloud

GCP, Azure, Cloud  
Functions

#### Machine Learning

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) 