@ patrick@patrickdwyer.com   in patrick-dwyer33   ○ patrickdwyer33

Patrick Dwyer

Data Scientist with 2 years of experience in cloud-based data engineering and machine learning. Proficient in designing, developing, and maintaining scalable systems across AWS, Azure, Fabric, and GCP. Strong expertise in Python, SQL, and Terraform, with hands-on experience building data pipelines, containerized applications, and CI/CD workflows. A fast learner with a problem-solving mindset, passionate about data engineering. Google Cloud Certified Professional Machine Learning Engineer.

Experience

Manifold Group: *Data Scientist*   **October 2023 – Present**

- Optimized client stored procedure decreasing query time by 99.8% to enable ingestion of > 100GBs of data
- Led implementation of historical report migration project from on-premise to Microsoft Fabric for Fortune 500 client
- Worked in a team setting to develop terraform resources for a data lakehouse architecture on Azure
- Designed networking surrounding a Synapse based data lakehouse on Azure in a team environment
- Built CI/CD pipeline for containerized anomaly detection application (GitLab CI/CD)
- Managed reporting QA process for a Fortune 500 client
- Developed and maintained data pipelines to ingest and process > 1TB of data from a client's database into a data lakehouse on Microsoft Fabric
- Built a containerized Azure Durable Function App to run dbt-core
- Built and presented pipelines and classification models using Vertex AI to new clients
- Designed and developed anomaly detection application (Python, Docker, AWS EC2)

Websanity: *Web Developer*   **September 2023 – Present**

- Freelance Web Developer for Rulepop, an emerging rules reference platform for tabletop games
- Implmented and maintaining Javascript features on an as needed basis

Schwartz Lab: *Lab Tech*   **July 2023 – Sep 2023**

- Developed supervised 3d Convolutional Neural Network in PyTorch
- Manually labelled 8,544 ground truth 2d points to ensure model accuracy

Tools & Skills

Tools

SQL, Python, Javascript, CSS, HTML, Bash, Postgres, Docker, dbt-core, git, GitHub Actions, GitLab CI/CD
Azure—Function App,VM,Synapse,Data Factory,Storage,ADLS2
AWS—ECR,RDS,S3
GCP—Vertex AI,BigQuery,Storage

Skills

Communication, Translating complex technical concepts, Presenting, Working in a team environment, Problem solving, Programming, System Design, Analysis, Modeling & machine learning

Education

BA: *Mathematics, Computer Science*   **Sep 2019 – June 2023**

Northwestern University, Evanston, IL — Weinberg College of Arts and Sciences — 3.43/4.00 GPA

Projects

patrickdwyer.com   **Summer 2023-Present**