patrick@patrickdwyer.com 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, 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.

## Experience

### Manifold Group: *Data Scientist*

**October 2023 – Present**

- 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 anomoly detection application (GitLab CI/CD)
- Built a containerized Azure Durable Function App to run dbt-core
- Built and presented classification models and pipelines using Vertex AI to new clients
- Designed and developed anomoly 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

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

### Skills

Clear thoughtful 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**

- Responsive CV website built from scratch using no pre-built libraries and industry best practices
- Integrated offline PWA functionality using vite-pwa-plugin