

# **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 anomaly detection application (GitLab CI/CD)
- Built a containerized Azure Durable Function App to run dbt-
- 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

• Freelance Web Developer for Rulepop, an emerging rules reference platform for tabletop games

#### September 2023 - Present

 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
  Manually labelled 8,544 ground truth 2d points to ensure PyTorch
  - 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

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

# **LLVM Compiler (Class: Compiler Construction)**

Winter 2022

• Built an LLVM→Assembly compiler in C++