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 anomaly detection application (GitLab CI/CD)
- 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

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 with industry best practices using vite & vanilla html/css/js
- Integrated offline PWA functionality using vite-pwa-plugin

LLVM Compiler (Class: Compiler Construction)

Winter 2022

- Built an LLVM⟶Assembly compiler in C++