Aidan Draper

SOFTWARE ENGINEER, DATA

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Experience

Restaurant365   *2023 - Present*
DATA ENGINEER *(R&D)*   *New York, NY (Remote)*

- Currently working multi-functionally building cloud infrastructure, modelling a centralized data model, building + demoing ML in the product, and producing product exploratory data analysis (EDA) for the Product Marketing team.
- Pairing with two Software Architects to **build and deploy machine learning (ML) models and infrastructure for the first ML software feature offerings** in the R365 product. Demoing how hand-built Tensorflow models in Vertex AI could serve 4,000 customer instances.
- **Creating and improving automated processes to support SOX compliance for IPO-readiness**, including mapping Sales customer accounts with billing software accounts to correct financial reporting of usage and recurring revenue, especially sold bookings verses billing collections.
- As team hire #1, **launched a new cloud warehouse in GCP and BigQuery with a centralized data model** supported by Fivetran and dbt. Assisted by, and partnered with, teammates across InfoSec, Devops, IT, and an off-shore team of 8 contractors.

WeWork   *June 2022 - January 2023*
DATA ENGINEER *(People)*   *New York, NY (Hybrid)*

- Led the decision, design and process of deprecating a single Airflow EC2 instance for a Docker and ECS microservices architecture that horizontally and vertically scales to **improve ELT task concurrency and reduce monthly server cost by roughly 30% by less resource idling.**
- Caught, corrected, and informed downstream stakeholders of critical bugs, including **the overcounting of headcount by 3% and salary run rate by a few million dollars**, due to outdated business logic in dbt report models being run in weekly emails sent to executives.
- **Architected and delivered a continuous integration and deployment (CI/CD) pipeline** in GitHub Actions for our Airflow + dbt code repository, while creating merge request guidelines and code documentation for team readability, onboarding, and SOC 2 compliance.
- **Refactored a Snowflake data mart in dbt to better fit the current need and business logic** of the People Team divisions: Recruiting, Learning, Diversity/Inclusion, Legal, and Compensation, using internal app, Greenhouse, Workday, Salesforce and Shareworks data.
- **Upleveled current code development processes** by introducing a deployment workflow lifecycle with test coverage expectations, a PEP8 code formatter/linter, and package vulnerability checks while improving DAG and dbt test coverage as well as Slack alerts for workflow failures.

Pathstream *(Series A Startup)*   **June 2021 - May 2022**
SOFTWARE ENGINEER, DATA *(R&D)*   *New York, NY (Remote)*

- Collaborated in a team of 4 to **deploy a custom OLAP and REST client in Django in just 3 months** that handles tasks such as data warehousing, table denormalization, and syncing product data with enterprise app data. See **https://gitlab.com/frame-00/00-api**.
- **Built ETL pipelines from scratch in Python using Airflow** from sources such as paid media platforms (TikTok, Facebook, Google) and student product data from an in-house Ruby on Rails app. Revised existing pipeline tests to improve coverage.
- Migrated Airflow operators to send data to a warehousing client. Created custom queries in a Postgres DB with Django dunder methods.
- **Designed and maintained SLAs by meeting with non-technical stakeholders**, and monitoring logs on DataDog and Airflow.
- Authored and reviewed technical content for data analytics courses as well as documentation for our data engineering repositories.

University of Notre Dame   *June 2019 - June 2021*
COMPUTER VISION RESEARCH ASSISTANT *(PhD Student)*   *Notre Dame, IN (On Site)*

- Studied the effectiveness of transfer-learned depth estimation neural networks for improving matching scores of 3D to 2D fingerprint images.

Skills

Languages	Proficient: [**Python, SQL, JavaScript, Bash, R**] Exposure: [**Rust, Ruby, C++, Java, Lua**]
Libraries	Airflow, dbt, Django, React, py: [Snappy/pyarrow, pytest, factory, Tensorflow, PyTorch, opencv, Pandas, NumPy], some Rails
Tools	Snowflake, BigQuery, Postgres, Fivetran, Redis, Git, Github Actions, Gitlab CI/CD, Codecov, JIRA, Notion, Tableau
	GCP: [Compute, Cloud Composer, Vertex AI, IAM] *AWS:* [ECS, EC2, ECR, RDS, S3, Cloudwatch, VPC, IAM, Route 53, Cloudfront]

Education

University of Notre Dame   *June 2019 - June 2021*
GRADUATE COURSEWORK IN COMPUTER SCIENCE, ADVISED BY DR. ADAM CZAJKA   *Notre Dame, IN*

Elon University   *May 2019*
BS IN COMPUTER SCIENCE, BS IN STATISTICS   *Elon, NC*

Competitions

Manhattan College Business Analytics Competition   *May 2018*
BEST POSTER AWARD FOR INTERPRETING NYC SMALL BUSINESS CONTRACT SPEND AND ALLOCATION DATA.   *New York, NY*

Champion Analytics Case Competition   *October 2017*
1ST PLACE OUT OF 20 TEAMS IN ANALYZING CHAMPION'S PRODUCT CONSUMER REVIEWS.   *Burlington, NC*