

CHRIS FU

Data Engineer | Analytics Engineer

@ chris.r.fu@gmail.com

chrifru

chrifru

chrisrfu.github.io

McKinney, TX



EXPERIENCE

Senior Data Engineer

NationsBenefits

Feb 2023 – Present (Full-time) • Remote

- Create dbt macros to assist with developing and testing of 300+ million row models in the dev environment, saving 3+ man-hours per model
- Responsible for dbt transformation uptime in several airflow pipelines
- Create, test, and maintain models in the transformation layer for internal stakeholders to use for ad-hoc reporting and dashboard development
- Parse json blobs in raw to staging models for performance optimization
- Wrote airflow operator to generate .xlsx reports from template and .sql

Data Engineer

Convene

Nov 2020 – Dec 2022 (Full-time) • Remote

- Migrated data warehouse from Redshift to Snowflake to save on monthly overhead and man-hours managing hardware and infrastructure
- Redesigned the data engineering workflow to use Apache Airflow & Docker
- Created a minimum viable product and pitched the pros and cons of using dbt for data transformation as opposed to using just views
- Created an ingestion pipeline to sync data from Salesforce API to Snowflake
- Monitored docker containers through AWS Cloudwatch and ECS

Data Engineer

American Airlines

Jan 2020 – Nov 2020 (Full-time) • Fort Worth, TX

- Developed an object-oriented Python script to monitor failures in pipeline
- Re-designed and developed ingestion pipelines from on-prem to cloud
- Developed a PySpark script to ingest AVRO and flatten JSON

Data Engineer

Bell Textron

Jan 2019 – Jan 2020 (Full-time) • Fort Worth, TX

- Generated SQL data tables to track customer component data
- Developed a component forecast to estimate next helicopter service
- Worked with analysts to ingest data, transform, and output to tables

Data Analyst Intern

InterContinental Hotels Group

Jun 2018 – Aug 2018 (Full-time) • Atlanta, GA

- Transformed client account data to provide behavioral analysis
- Built a Python script using Google Maps API to pull in geographical data

PROJECTS

Webscrape For Deals

- Built a Python program to search through Macbook Air M1 availability
- Used Selenium to web-scrape through all major US cities
- Drove 5 hours and saved ~50% of retail price

EDUCATION

B.S. in Industrial & Sys Engineering

Georgia Institute of Technology

May 2015 – Dec 2018

CERTIFICATES

Analytics: Essential Tools & Methods

edX

LANGUAGES

SQL

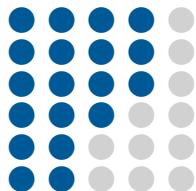
Python

R

LaTeX

Java

HTML & CSS



DATA ENGINEERING

dbt

Microsoft SQL Server

Airflow

Snowflake

S3

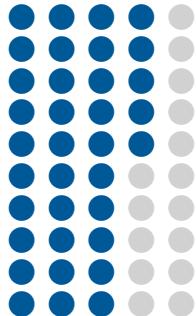
Databricks

Redshift

Spark

Docker

FiveTran



PLATFORM FLAVORS

AWS

Snowflake

Azure Databricks

PROGRAMS & TOOLS

VSCode

DBeaver

Microsoft SQL Studio

Azure DevOps

JIRA

Cloudwatch

ECS

EC2

Postman

Smartsheets

Github

Jupyter

Tableau

OpenRefine

DATA ENG. CONCEPTS

Primary Keys

Transformation

Ingestion

Modeling

Pipelines

Backfilling

DAG

Monitoring

Validation

Semi-Structured

TaskFlow

Worker

Scheduler

ELT

API