

# in ADAM T. GADDIS

SOFTWARE ENGINEER

✉ agaddis02@live.com

🌐 agaddis02

☎ (214) 335 - 3200

🔗 Python, Go, Scala

## EXPERIENCE

### • Arch Energy Partners

Lead Data Platform Engineer

Dallas, TX (Hybrid)

March. 2023 - Present

- Developed robust data ingestion pipelines using Go, facilitating efficient data acquisition from various APIs. Develop Python and Scala code on Databricks, leveraging Apache Spark for processing extensive well production data, (500 Million+ Daily).
- Created a bespoke tool for tracking and monitoring active oil wells, integrating real-time data and analytics capabilities. Developed an ELT pipeline in Python to streamline accounting data integration into the data warehouse.
- Expertly set up and maintained a multi-cloud environment across GCP, AWS, and Azure, optimizing for cost-effectiveness and performance. Pioneered the use of BigQuery for centralized data warehousing, enhancing data accessibility and analytics.
- Engineered multiple Google Cloud Functions to automate and refine data transformation and storage jobs, enhancing system efficiency and reliability.

Technologies: Go, Scala, Python, GCP, Bigquery, S3, GCS, Cloud Functions, Streamlit, Databricks, Apache Spark, MongoDB

### • Bank of America

AVP Data Engineer

Dallas, TX (Hybrid)

Sep. 2022 - Mar. 2023

- Led the establishment of SDLC practices for the team, transitioning code to a centralized Bitbucket repository and meticulously documenting all ongoing systems.
- Overhauled real-time text-based data segments of the data warehouse, converting SQL Server scripts and SSIS packages into efficient PySpark code and Kafka streams, achieving processing of hundreds of thousands of data points in near real-time.
- Successfully prototyped a Flask-based web application to revamp a report tracking system for a sister team, managing and updating over 1000 internal reports encompassing more than 500,000 data points.
- Spearheaded the continuous integration and continuous deployment (CI/CD) processes using Bitbucket and Jenkins, ensuring seamless and efficient deployment of software updates.

Technologies: Python, Azure, Jenkins, Git, Hadoop, MapReduce, HDFS, Sqoop, Impala, CosmosDB

### • LOOP

Senior Data Engineer

Dallas, TX (Remote)

April 2022 - Sep. 2022

- Orchestrated the hosting of an Airflow instance within a Docker container on Google Cloud Platform (GCP), establishing it as the central scheduler for routine jobs. This initiative streamlined processes involving Python, BigQuery, and Google Cloud Storage (GCS).
- Diligently documented technical systems, employing tools like Data catalogs, DBDocs, and DBDiagram, thereby improving system transparency and maintainability.
- Successfully integrated a third-party C application into the quote flow system, enabling dynamic insurance quote comparisons with other providers. This system handles over 7,500 quotes monthly, demonstrating its scalability and reliability.

Technologies: Python, C#, Docker, GCP (Cloud Storage, Data Catalog, BigQuery), Airflow, ERD, API's.

### • Southwest Airlines

Data Platform Engineer Intern

Dallas, TX (Remote)

Jan. 2022 - April 2022

- Developed a POC Python Framework to properly parse X12 EDI Documents.

- Orchestrated and automated Python ELT Pipeline, using Airflow, to ingest X12 EDI Invoices Daily into an On-Prem Postgres Data Warehouse.
- Deployed and monitored pipeline using Docker and Jenkins.

Technologies: Python, Airflow, Postgres, Docker, Git, Jenkins.

## • Goldman Sachs

Dallas, TX (In Person)

*Data Platform Engineer Intern*

*Jun. 2021 - Aug. 2021*

- Developed Python Application to compare database schema's between on-premise systems and their cloud equivalents, reconciled 100% of mismatches.
- Rewrote Enterprise Data Platform test cases to utilize pytest, testing coverage increased from 70% to 91%+.
- Developed and Deployed a key Python Library (PAT) streamlining workflows with instant connections to 5 central internal data stores.

Technologies: Python, JIRA, Confluence, API's, Git, Docker, Kubernetes, Tableau, PyPi.

## • University of North Texas at Dallas

Dallas, TX (Remote)

*Lead Analytics Engineer*

*Aug. 2020 - December. 2021*

- Oversaw a team of 5 engineers focused on Data Governance, Reporting, and Quality for the University, Rewrote existing scattered SAS pipelines into an all inclusive Scala system, decreasing time for State report generation by 250%.

Technologies: Scala, SAS, SQL Server, Oracle, Azure, Git, API's.

## • Scout Energy Partners

Dallas, TX (Hybrid)

*Data Scientist*

*Jun. 2019 - Aug. 2020*

- Developed Python ETL pipelines to retrieve more than 400k+ data points daily from in-field SCADA Systems.
- Led Development of an internal Data Platform to visualize and maintain data governance, built using Go & Python.
- Developed and Deployed multiple Python internal CRUD Applications, scripts, and predictive models.

Technologies: Python, Azure, Git, Github Actions, SQL Server, LaTeX

## SKILLS

Orchestration: Airflow, Luigi, Cloud-Based(ADF, DataFlow)

Databases: Postgres, CassandraDB, MongoDB

Python Frameworks: Flask, PySpark, FastAPI

Scala Frameworks: Spark, Hadoop, Hive

Go Frameworks: Echo, Gin, Mux

Cloud Platforms: GCP, AWS, Azure

Containerization: Docker, Kubernetes

Interest: FinTech, ClimateTech

## EDUCATION

### University of North Texas at Dallas

Dallas, TX

*B.B.A in Analytics — GPA: 3.7/4.0*

*Aug. 2020 – Dec. 2022 (Graduated)*

Notable Courses: Statistical Modeling, Database Applications, Data Warehousing, Big Data Management.

### Dallas Community College — (Richland)

Dallas, TX

*A.A.S in Software Development — GPA: 3.6/4.0.*

*Aug. 2016 – May. 2020 (Graduated)*

Notable Courses: Operating Systems, C# Development, System Design, Java, Python, Networking.

## PROJECTS

- Oil & Gas Contract: Developed a ELT process for an oil & gas client, to interact with Combocurve API v2, and ingest all data available, built using Pyspark & SQL Server
- LightningScout Web App: Developed Scala Back-end to interface with a flutter based application that is used our data collection system.
- LightningScout ELT: Using Python, Azure (Postgres), to automate the ingestion of 100k Robot Scouting Actions Annually.
- Slack Bot Scheduler: Python based, event driven slack bot, interacting with S3's, TBA API v3, and internal scripts.
- Scouting System Mentor FRC3005: I teach kids how to program crazy systems & application through Robotics in Python, Scala, and Go that professionals are just now learning.