Nathaniel DiRenzo

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EXPERIENCE

Data Consulting Firm - Data Solutions Architect   2022 - Present
- Led project to build, implement, and maintain a data warehouse for serving data to a consumer-facing application using GCS/BigQuery.
- Built orchestration workflows to sync batch and streaming ingestion, transformation, and loading to data warehouse using Prefect.
- Migrated and refactored CI/CD pipeline from GitHub Actions to Jenkins. Added new linting/formatting hooks, and Python unit tests.
- Reduced cloud costs by adding lifecycle policy to data lake, refactoring ETL pipelines into Cloud Run Docker images run with Terraform.

Marketing SaaS Company - Data Engineer   2022 - 2022
- Responsible for the aggregate media data infrastructure of an analytics platform used by 1500+ agencies worldwide.
- Updated data ingestion pipeline from a 'data swamp' to a data lake with schema and tiered landing-zone method for each data source.
- Coordinated with DSP vendors to understand and implement schema changes proactively. Managed relationships with analyst users.
- Built and managed Airflow ETL pipelines on AWS using PySpark, S3, and Athena. Worked vendors and analysts to define data needs.

Data Consulting Firm - Data Engineering Apprentice   2021 - 2022
- Built, deployed, and maintained data infrastructure solutions on GCP/AWS for 20+ clients. Acted as lead technical contact for projects.
- Refactored existing Airflow codebases from version 1 to 2. Implemented optimizations resulting in a >40% reduction in DAG runs.
- Built pipelines to Extract data from 3rd party API's using Python, transform data using Spark SQL, and load to data warehouse solution.
- Organized data warehouses into STAR schema and built curated data marts that delivered high priority business metrics to clients.

Consumer Research SaaS Company - Developer Relations   2021 - 2021
- Oversaw premium tier customer usage of the API. Conducted live code demonstrations of API usage with Postman and Python.
- Managed relationships with upstream data partners to identify changes in data availability and proactively change API structure.
- Shared API customer feedback with Product & Engineering teams. Helped maintain the feature roadmap and API documentation.
- Led enablement for Sales teams, developed collateral with Marketing, and reported revenue and adoption metrics to leadership.

Market Research Start-Up - Industry Lead, Public Opinion Research   2019 - 2020
- Established the Public Opinion Research team. Grew team to 3 analysts, and secured initial clients ahead of 2020 Presidential Election.
- Generated $300,000 in revenue during the 2020 Presidential Election through professional services billed to the Public Opinion team.
- Worked with the ML team to build a data pipeline to process user responses on platform and train custom sentiment analysis model.
- Worked with clients and data vendors to scope and fulfill project needs. Produced data analysis and visualizations for presentations.

Public Cloud Provider - Account Manager   2016 - 2019
- Responsible for managing 100+ clients and $1.5 million in annual run rate. Acted as the Cloud Platform SME to customer end users.
- Led ongoing enablement seminars for customers, oversaw participation in EA/Beta programs, and regularly provided roadmap updates.
- Scoped and proposed cloud architectures for client use cases. Led conversations between technical teams and client end users.
- Performed 'live-coding' on the cloud console to enable new client end users. Used Architecture Diagramming Tool to build tutorials

Political SaaS Company - Marketing Data Analyst   2015 - 2016
- Analyzed platform traffic and marketing data with Python and SQL to identify channels, campaigns, and content yielding highest ROI.
- Collaborated with the Engineering team to build ETL pipeline and data warehouse schema. Created data marts optimized for analysis.
- Made dashboards with PowerBI for senior leadership use. Presented sales, marketing, and platform traffic data in a clear format.
- Assisted in the creation of the EU expansion proposal. Created analysis and visualizations to justify investment to ownership.

National Security Think Tank - Open Source Intelligence Analyst   2014 - 2015
- Created OSINT collection tools using Python, social media API's, and Postgres to collect posts concerning specific topics or regions.
- Collaborated with a bipartisan team of staff members to prepare analysis of collected data. Wrote executive summaries for senior staff.
- Participated in discussions with DOD, Intelligence, State Dept. officials, and lawmakers about social media and intelligence collection.
- Created documentation and enablement to allow other staff members to use OSINT collection tools. Recorded training for future use.

PROJECTS

War in Ukraine ETL Pipeline & Dashboard	[Github](#), [Medium Post](#)
Automatic Target Recognition using Deep Learning	[Github](#), [Medium Post](#)
Asteroid Diameter Predictor Web Application	[Github](#), [Medium Post](#)
Agile Machine Learning Prototyping with Streamlit	[Github](#), [Medium Post](#)

SKILLS

- Python
- Shell Scripting
- Amazon Web Services
- Airflow
- Jenkins

- SQL
- Atlassian Suite
- Google Cloud Platform
- Terraform
- Git Version Control

- Scala
- Docker/Kubernetes
- MongoDB
- dbt
- Snowflake

EDUCATION

New York University - Bachelor's, Individualized Study   2010 - 2014