Matthew Ventura, P.E.

Data Engineer

847.476.5825 - Matthew.T.Ventura@gmail.com - www.linkedin.com/in/matthewtventura

Summary

Expert Big Data Analytics Engineer who delivers scalable forward-looking solutions. Fluent in a variety of languages and tools. Investigative in unstructured data to develop pipelines, data models, and ETL/ELT cleaning processes. Team builder and self-managed provider of clean, usable data to stakeholders with a constant thirst for new responsibilities and tools.

Tools / Skills

Expert: Snowflake, SQL, VBA, Excel, MS Office
Advanced: Python, Looker, dbt, ETL/ELT processes, Data Modeling, Data Warehousing, DAG, Airflow, Git
Intermediate: Jira, Bash, Tableau, Oracle BI, Qlik, Fivetran, Jenkins, Miro, Jinja
Familiar: AWS S3, Spark, Scala, Hadoop, Salesforce, Power BI

Professional Experience

July 2023 - Present

Senior Data Engineer

Global Logic - Client Contracts

- Developed Big Data pipeline with raw source data ingestion into Snowflake through dbt ETL processing for Finance, Payroll, Data Science, and other stakeholders
- Joined client at early stages of system migration to Snowflake, running E2E QA tests against controls of current system for data flow evaluation, data validity, and retaining efficient query profiles
- Built data models for processing new designated snapshot data sources over 25 times larger than the former systems' sources. Used new architecture and OLAP cube structures to prepare for upcoming incremental configurations and forecasted children tables.
- Managed DAG runs in Airflow to schedule linear flow of parent to child tables between separate executors, with and without dependencies, to ensure clean data outflow

June 2022 - May 2023

Analytics Engineer I

TrueML / TrueAccord

- Managed Snowflake SQL pipeline for Big Data ETL processes to deliver B2B and B2C data products to stakeholders across growth-stage financial startup
- Ensured consistent output to AWS cloud warehouse across legacy and modernized tables, including deduping, normalizing, and deterministic ordering
- Designed and contributed to intermediate and incremental models across the company codebase to enhance performance and usability of materialization stages
- Enhanced validity of forecast analytics by investigating and data modeling the ETL process of external data
- Designed data ingestion mechanism to meet ELT needs of large unstructured data
- Optimized end-to-end data translation for Looker users to access metrics and KPIs
- Engineered system to build LookML metrics and Looker Dashboards for Data Science, Payments, Client Relations, and other users

September 2021 - June 2022

Business Report System Analyst

Schnitzer Steel Industries, Inc.

- Engineered ETL pipelines to visualize metrics of material processing pricing and profit in data marts
- Lead cross-functional discussions with subject matter experts for planning around rapid changes in trade costs and budgets
- Built Oracle BI SQL queries on relational databases and VBA programs on extracted data for tracking the company's nationwide sales and purchases on a daily basis
- Generated ETL processes and programs working across multiple tools and programs to track each stage checkpoint in sales, shipping, receiving, and revenue recognition

May 2018 - June 2020

Data Analyst / Intelligent Transportation Systems Engineer III

HNTB Engineering

- Analyzed deviations in bid prices outside interquartile range of similar bid items to investigate the cause and validity of values toward cost reports
- Built SQL data pipeline structures to analyze product and labor cost growth of contracts over past 10 years to forecast upcoming trends for the next 5-10 years
- Developed Python API to revitalize clients' budget gaps to targeted 10% above bids through identifying steady cost growths versus market-influenced growths

June 2017 - May 2018

Data Analyst / Intelligent Transportation Systems Engineer

PBS Engineering

- Designed data models and gave presentations to convey the story of connections and impacts between multiple stakeholders' responsibilities

June 2009 - June 2017

Data Analyst / Project Engineer

Aldridge Electric, Inc.

- Developed API to allow UI input towards engineered virtual layouts and automated worksite redesign with an output of CAD drafting code for plan execution and delivery on-call
- Integrated multiple programs by porting into one platform of VBA coding for universal compatibility among users reducing output time by 80%.

Education

Bachelor of Science, *Civil Engineering* - *University of Illinois at Chicago, IL - 2009*
Associate of Science, *Civil Engineering* *- College of Lake County, IL - 2006*

Certifications

Professional Engineering License, *New Jersey* *- #24GE05696400, Active*
Professional Engineering License, *Illinois* *- #062070454, Active*

MATTHEW VENTURA

- Randolph, NJ, US

Contact Information

- kni-9og-1ye@mail.dice.com

Summary

Exploratory DataAnalytics Engineer with 10+ years experience. I help companies problem solve, control data quality, and deliver clean, usable data for informed decision-making. Proven track record of optimizing data pipelines, mentoring teams, and achieving tangible results. ������������������ ������������� & �����������: SQL, Python, Snowflake, dbt, Looker, LookML, Airflow, Tableau Here are a few examples of my work: • Managed ETLELT SQL pipelines for daily ingestion of over 10,000 events through data warehouse into scalable tables. Augmented table values into data models and explorations to reduce dashboard and query loads from by up to 80%. • Collaborated with Data Science to gain clarity on what KPIs were needed. Assessed the statistical equations and filters in use to find an organic ratio of variable size reaching 10,000:1, making current results unusable. Developed unorthodox calculations in Snowflake and LookML to deliver an effective output with 95%+ accuracy. • Analyzed 300,000+ varying data points in unstructured diagrams. Designed an API product for data cleansing and integration into real-time, structured visualizations and script output for over $4 million savings in materials and labor. I get excited about opportunities where I'm able to leverage big data into analytic outputs to deliver data for users on all levels. I love connecting with new people, give me a shout at matthew.t.ventura@gmail.com or here on LinkedIn!

Work History

Total Work Experience: 15 years

- **Sr Data Engineer Global Logic**
  Jul 01, 2023

- **Analytics Engineer Trueml / Trueaccord**
  Jun 01, 2022

- **Business Systems Analyst Schnitzer Steel Industries, Inc.**
  Sep 01, 2021

- **Data Analyst / ITS Engineer HNTB Engineering**
  May 01, 2018

- **Data Analyst / ITS Engineer PBS Engineering**
  Jun 01, 2017

- **Data Analyst / Project Engineer Aldridge Electric, Inc**
  Jun 01, 2009

Education

- **Bachelors** | University of Illinois at Chicago

Skills

- **data analysis** - 14 years
- **programming** - 14 years
- **sql** - 8 years
- **data management** - 6 years
- **git** - 4 years
- **postgres** - 4 years
- **python** - 4 years
- **apache airflow** - 2 years
- **aws** - 2 years
- **b2b** - 2 years
- **dag** - 2 years
- **dbt** - 2 years
- **qa** - 2 years
- **snowflake** - 2 years
- **fivetran** - 1 years
- **qlik** - 1 years
- **salesforce** - 1 years

- **2d to 3d conversion**
- **autocad**
- **civil 3d**
- **civil engineering**
- **concrete**
- **construction**
- **employee training**
- **engineering**
- **finite element analysis**
- **inventor**
- **light rail**
- **microsoft excel**
- **project estimation**
- **project management**
- **rail**
- **revit**
- **steel**
- **structural engineering**
- **transportation**
- **b2c** - 1 years
- **looker** - 1 years
- **vba** - 11 years
- **tableau** - 1 years
- **javascript** - 2 years
- **css** - 1 years
- **html5** - 1 years
- **java** - 2 years

Work Preferences

- Desired Work Settings: Remote
- Likely to Switch: True
- Willing to Relocate: False
- Travel Preference: 0%
- Work Authorization:
  - US
- Work Documents:
  - US Citizen
- Desired Salary: 140,000+ (USD)
- Security Clearance: False
- Third Party: False
- Employment Type:

      o Full-time

Profile Sources

- linkedin: https://www.linkedin.com/in/matthewtventura
- twitter: https://twitter.com/hntbcorp
- facebook: https://facebook.com/hntbcorp
- Dice:
  https://www.dice.com/employer/talent/profile/bd7373a1c562e95c266e987f4d07c27c