

# JOHN NAESSIG

Pitman, NJ (Remote or Philadelphia, PA)

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## SENIOR/PRINCIPAL DATA ENGINEER

Results-driven data engineer and technical leader with extensive experience designing enterprise-scale data solutions and driving organizational change. Proven track record of architecting high-performance data pipelines, building scalable platforms, and leading cross-functional initiatives that align engineering execution with business outcomes. Experienced in transitioning between deep IC work and engineering management, with a history of elevating team standards through mentorship, process transformation, and data quality frameworks. Equally effective as a hands-on technologist and as a leader who removes friction, builds alignment across stakeholders, and turns ambiguous problems into clean solutions.

## TECHNICAL EXPERTISE

- **Data Engineering:** Apache Airflow, ETL/ELT Pipeline Design, Data Modeling
- **Programming:** Python, SQL
- **Cloud:** AWS (ECS, ECR, S3, IAM, Redshift, RDS, Lambda)
- **Databases:** Redshift, Snowflake, PostgreSQL, MySQL, MSSQL, Oracle
- **DevOps & Infrastructure:** Terraform, Docker, CI/CD (Github Actions, Jenkins)

## PROFESSIONAL EXPERIENCE

Trella Health | June 2025 - Present

Manager, Data Engineering

- Transitioned from Principal Data Engineer to Manager.
- Led data infrastructure modernization including:
  - dbt Pipeline design
  - Real Time (Kafka) Pipeline using Transactional Outbox Pattern
  - Snowflake Security and Governance

- Contributed to 5-year enterprise data strategy; designing data mesh architecture to support aggressive M&A growth, including vendor evaluation (Databricks) and technical roadmap.
- Drove cross-functional infrastructure standards establishing Terraform/IaC practices and cloud resource governance across engineering teams.

## ASSOCIATED BANK | May 2023 - June 2025

### Senior Data Platform Engineer (January 2024 - June 2025)

- Led technical evaluation and implementation of modern data stack solutions including Apache Airflow, dbt, and SQLMesh.
- Reduced platform development and maintenance overhead by 80% through creating standardized Docker configurations, internal Python libraries, and reusable CI/CD Github Actions pipelines.
- Created automated testing, linting, and deployment pipelines, improving project quality and reducing project setup time from days to hours.
- Built self-service Terraform modules enabling business teams to provision AWS resources independently.
- Performed DBA responsibilities such as granting/revoking roles in Snowflake.

### Senior Data Operations Engineer (May 2023 - December 2023)

- Optimized critical data processing workflows, improving query performance from 4 hours to 60 seconds.
- Engineered platform health monitoring dashboard using Streamlit, FastAPI, and Snowflake.
- Implemented CI/CD for database schema version control and automated deployment.
- Designed and optimized ELT pipelines for ingesting on-premise databases into Snowflake.

## HEALTHJUMP | Dec 2021 - April 2023

### Senior Data Engineer

- Met regularly with stakeholders from major clients to discuss needs, requirements, and help with onboarding.
- Reduced environment provisioning time by 40% through implementing infrastructure as code (AWS CDK).

- Architected FHIR data ingestion pipeline handling 20+ sources and 300+ endpoints with PHI compliance.
- Increased pipeline throughput 4x by optimizing Airflow queues and database indices.
- Led team of three data engineers; established standards for data, code style, and git workflows.
- POC'd data quality monitoring framework using Great Expectations.

## HEALTHVERITY | Aug 2021 - Dec 2021

### Data Engineer

- Created ETL pipelines using PySpark and Airflow for healthcare data processing.
- Developed core Python libraries for data processing and validation.

## DELOITTE | Feb 2021 - Aug 2021

### Data Engineer (Contract)

- Automated data validation processes for large-scale migration projects.
- Built real-time monitoring dashboards using Spark SQL and TypeScript.

## INTEGRICHAIN | Jan 2020 - Feb 2021

### Data Engineer

- Built near real-time ETL pipeline using Kafka, Airflow, and Redshift to migrate analysts from a legacy product to a new data platform.
- Designed process to extract and deliver custom data extracts to customers.
- Implemented data mastering API using FastAPI and PostgreSQL.

## HEALTHJUMP | 2018 - 2020

### Software Developer

- Implemented automated OCR pipeline for patient documents using GCP Cloud Vision.
- Built ETL process for extracting DICOM imaging data from hospital servers to AWS S3.
- Developed ETL pipelines using Python, Airflow, and AWS.
- Created REST APIs for healthcare data access.
- Managed AWS infrastructure (S3, IAM) for customer onboarding.