Willard Nixon III
Data Engineer

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Portfolio: willard-nt.github.io

Experience

2019 - 2021
Alion Science and Technology
Systems Administrator

Secured Linux and Windows systems, applied patches via HBSS/EPO, and resolved cross-domain and performance issues. Supported data transfers across classified networks, enforced DoD security policies, and managed user access. Utilized tools like VMware, Splunk, RabbitMQ, Nagios, Jira, and Remedy to monitor and maintain system reliability.

2014 – 2019
United States Air Force
System Administrator

Academic Projects

ETL Pipeline Development for Music Streaming Data

Designed dynamic Airflow DAGs with custom operators to automate ETL workflows and backfill historical data from S3 to Redshift.

Built reusable loaders for fact and dimension tables, created a data quality tool to check pipeline integrity using flexible SQL tests.

IoT Data Lakehouse for STEDI Human Balance Analytics

Built ETL pipelines to curate IoT sensor data from fitness devices, resolving data quality issues and filtering based on user consent.

Designed multi-zone Lakehouse architecture and joined time-aligned streams to generate machine learning–ready datasets for step detection modeling.

Cloud Database Solution for E-Commerce Platform

Designed and implemented a cloud-based transactional database schema, loaded e-commerce data, and validated functionality through SQL queries for customer insights.

Education

2023 – 2025
M.S. Data Analytics – Data Engineering
Western Governors University

2019 – 2023
B.S. Information Technology
Western Governors University

Skills

Cloud: AWS GCP

Languages: Python, SQL

Data Tools: Airflow, Glue, Spark

Databases: Redshift, Athena, BigQuery

Certifications

CompTIA Security +
CompTIA Project +
AWS Certified Cloud Practitioner
LPI Linux Essentials