WILLIAM VERNON III

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SUMMARY

MS Data Science candidate building production-style pipelines with Python, SQL, dbt, and Dagster. Since 2023, completing the MS while working full time. Path from operational data work and software delivery into data engineering—focused on reliable ETL, dimensional modeling, and lakehouse patterns. Open to junior data engineer and data analyst roles, especially lakehouse/ETL.

SKILLS

Languages: SQL, Python · **Data & Storage:** dbt, Dagster, DuckDB, DuckLake, pandas, SQLite, Parquet
Modeling: Dimensional / star schema, bronze–silver–gold, dbt tests · **Tooling:** Git, Docker Compose, uv, Jupyter
Web (prior): JavaScript/TypeScript, React, Next.js, Twig (2021–2023)

PROJECTS

Statline | Local NFL data lakehouse | *Python*, *DuckDB*, *DuckLake*, *dbt*, *Dagster*, *SQL*
github.com/willvernon/Statline · 2025–Present

- Built end-to-end ingest of ~25 seasons of NFL box scores, schedules, rosters, and draft data from nflreadpy into a DuckLake bronze layer (SQL catalog over Parquet).
- Built 12 dbt models (7 silver staging views, 5 gold dim/fact tables) into a player-game & team-game star schema for notebooks and a sports app.
- Orchestrated bronze/silver/gold as Dagster assets via dagster-dbt: single-command full refresh with per-layer lineage in the Dagster UI.
- Evaluated distributed lakehouse options; chose single-node DuckDB after concluding volume did not justify distributed ops cost.

X/Twitter Threat Analysis Pipeline | *Python*, *pandas*, *VADER*, *Hugging Face*, *SQLite*
github.com/willvernon/twitter_threat_pipeline · 2025

- Built a rolling 24h X API v2 ingest, paging at the 100-post request ceiling; filtered spam/non-English and scored sentiment with VADER into a 3-table SQLite store.
- Reduced classifier call volume by routing only negative-sentiment posts to zero-shot bart-large-mnli; queued gaming-slang false positives for human review.

TECHNICAL EXPERIENCE

Frontend Developer | Trailer Central — Dec 2022–Jul 2023

- Built client-facing inventory interfaces and reporting views with Twig templating on an Agile team using Git and Atlassian tooling.
- Partnered with backend engineers to integrate data feeds and surface inventory metrics to clients.

Technical Project Lead (Contract) | Big Bison Logistics — Oct 2021–Sep 2022

- Owned delivery of an internal ops app covering job assignments, invoicing, paperwork, and resource storage: platform decision, screen layouts, requirements, developer coordination, and in-house user testing through rollout.

Data Specialist | Tom Wood Automotive — Oct 2020–Sep 2021

- Migrated customer, inventory, and sales records from spreadsheet exports into a new dealer management system during a platform cutover; validated loaded records.

Software Developer Intern | BitLoft — May 2018–Aug 2019

- Built internal desktop and mobile tools and data collection features.

ADDITIONAL EXPERIENCE

Facilities Technician | Merchants Bank · Sep 2026–Present
Security Officer | Dedicated Shield · Mar 2023–Present — *Access control, incident logging, shift reporting (aviation); concurrent with grad school*
Specialist | Apple · Aug 2024–Jan 2025
Executive Protection Agent | Big Bison Logistics · Oct 2021–Sep 2022 — *Concurrent with Technical Project Lead contract*

EDUCATION

M.S., Data Science | University of Colorado Boulder — Oct 2023–Present (expected 2027)
GPA 3.72 · Coursework: Probability, Supervised ML, Data Mining, SQL & Relational Databases, Algorithms

Associate Degree + Technical Certificate | Ivy Tech — 2018–2020 (conferred 2024)

Certifications: Supervised Machine Learning (DeepLearning.AI / Stanford, 2023); Data Analytics in Sports Law & Management (SUNY, 2024); Power BI (Microsoft, 2024)