

# Tyler Henn.

DATA QUALITY ASSURANCE MANAGER

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## 01 PROFILE

QA Manager at Ideon for 5+ years, focused on data quality. Sole developer of Vantage — Ideon's internal data QA platform that validates pipeline outputs, runs source-to-target reconciliation across staged data layers, and catches regressions before they reach downstream consumers. [Full case studies, live demos, and architecture diagrams at tylerhenn.dev.](#)

## 02 HIGHLIGHTS

<b>742</b> CARRIER / AUDIENCE COMBOS VALIDATED DAILY	<b>103</b> SQL DATA TESTS GATED BY THE CUSTOM CI CHECK	<b>14+</b> TOOLS SHIPPED ON VANTAGE AS SOLE DEVELOPER	<b>30×</b> PER-TICKET SPEEDUP FROM THE ADAPTER AGENT
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## 03 EXPERIENCE

### Data Quality Assurance Manager

FEB 2024 – PRESENT

Ideon · New York, NY

- Built Vantage — internal data QA platform on AWS (Elastic Beanstalk, Athena, S3, Cognito) with a layered architecture and a mandatory CI/CD quality gate ( `ruff`, `mypy`, `pip-audit`, `bandit`, `pytest`, Selenium, plus a custom `sqlglot`-validated SQL-suite check).
- Designed *BenefitWatch*, Vantage's regression suite — a single-file registry of 103 SQL data tests running 742 carrier/audience combos daily and on-demand across a Bronze/Silver/Gold medallion.
- Shipped *WREN* (dataset change-log monitor with priority-tiered flagging) — daily zero-tolerance scan on 14 high-priority fields + ticket-level change-set view), *Adapter Agent* (sandboxed carrier-script execution + Bedrock Claude repair loop when scripts fail; ~15 min → 30 sec per ticket), *CSM Assistant* (Claude Haiku 4.5 data-availability chatbot for CSMs).
- Also shipped *ARIA* (deterministic SBC profiling with priority-tiered flagging), *SAGE* (Bedrock + `pdfplumber` docs Q&A and PDF-to-ingest), *THEA* (LLM-generated extraction in subprocess sandbox), plus Salesforce, Jira, and runtime-config tooling.
- Operate the production security model end-to-end: PKCE S256, HMAC-SHA256 CSRF, RS256 JWT against Cognito JWKS, ALB-aware per-user rate limiting. Ran and closed dependency-CVE and bandit audits to clean baselines.

### Data Quality Assurance Coordinator

JUN 2021 – FEB 2024

Ideon · New York, NY

- Built the predecessor SQL validation routines that became BenefitWatch — started treating queries and schemas as testable artifacts. Mentored teammates and led annual training on data standards.

### Data Operations Coordinator

JUL 2020 – SEP 2021

Ideon · New York, NY

- Standardized health-insurance data (QHPs, SBCs, rates) across multiple carriers — defined the data contracts that became the basis for automated contract-style validation downstream.

## 04 CORE SKILLS

- A · DATA QUALITY** Source-to-target reconciliation · Custom data contracts (sqlglot) · Anomaly & schema-drift detection · Aggregation validation · dbt-tests / Great-Expectations patterns · Issue logging & trend reporting
- B · SQL & DATA** Athena / Trino · `json_extract_scalar` · ARRAYS & UNNEST · Self-joins for YoY · Pandas · openpyxl · Plotly Dash · YoY benchmarking
- C · ENGINEERING & CLOUD** Python (production) · Flask · REST APIs · Unicorn · Nginx · Subprocess sandboxing · Runtime feature flags · AWS (EB, S3, Cognito, Bedrock, Athena, CloudWatch) · Selenium · CI/CD quality gates
- D · AI TOOLING** AWS Bedrock (Claude) · AWS SageMaker (in progress) · RAG · LLM repair loops · Structured tool use · Few-shot prompting
- E · INTEGRATIONS & SECURITY** Jira REST v3 · Salesforce REST (SOQL + write-back) · GitHub · Postman · OAuth 2.0 / PKCE · RS256 JWT / JWKS · HMAC-SHA256 CSRF · pip-audit / bandit in CI · ALB-aware rate limiting

## 05 EDUCATION

B.S. Computer Science & Information Security · John Jay College, The City University of New York · Conferred Jun 2020

### WANT THE REAL DEPTH?

Architecture diagrams, interactive tool demos, SQL contracts, and case studies on Vantage, BenefitWatch, WREN, ARIA, the Adapter Agent, the CSM Assistant, and the CI gate are at

[tylerhenn.dev](#)