DAVID DAMON

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SUMMARY

Data Engineer skilled in building production-grade, test-driven ELT/ETL pipelines across Azure, GCP and AWS. Experienced with dbt modeling, Spark/Databricks transformations, Airflow and Dagster orchestration, and data-quality automation using Great Expectations. Delivers vector-ready datasets and semantic models for AI-powered analytics while focusing on scalable design, cost optimization, and clean documentation.

• Data Processing: PySpark, Spark Streaming, Kafka, Databricks (Delta Lake, SQL UDFs, MLflow)

• Orchestration & ETL: dbt (Core), Airflow, Dagster, Azure Data Factory

• Governance & Quality: Great Expectations, dbt tests, SCD Type 2, IAM principles

• Cloud & Ops: Snowflake, BigQuery, ADLS Gen2, S3, GitHub Actions (CI/CD), Docker, Terraform, Monitoring & Alerts

• BI & Visualization: Power BI, Looker Studio

PROJECTS

Tampa Rent Signals Pipeline – Snowflake · dbt · Dagster · FastAPI

• Built a production-grade medallion architecture integrating Zillow, ApartmentList and HUD/FRED datasets; designed 15+ Dagster assets with parameterized ingestion, schema validation and automated monitoring.

• Implemented dbt transformations with SCD Type 2 tracking and 100+ Great Expectations checks; exposed real-time rental analytics via a FastAPI service powering dashboards and API integrations.

LeaseRadar – Full-Stack Rental Market Platform – Next.js · TypeScript · FastAPI · Snowflake

• Developed a full-stack application with Next.js 14 and FastAPI, connecting to a Snowflake warehouse via REST APIs; implemented Zustand state management with caching and real-time analytics.

• Deployed containerized services on Render and delivered WCAG AA-compliant responsive UI; provided price trend charts, watchlists and reusable design tokens.

Real-Time Offer Streaming System – Kafka · Spark Streaming · AWS

• Built a streaming pipeline handling 10K+ transactions per minute with p95 latency < 60 seconds; dual-sink design (S3 + SQS) achieved exactly-once processing and 99.9% uptime.

• Deployed a Lambda-based notification service and Athena analytics layer; added encryption, PII masking and proactive monitoring to meet compliance.

E-Commerce Warehouse – GCP · BigQuery · dbt · GitHub Actions

• Modeled 116K+ records with incremental MERGE logic and null-safe transformations in a BigQuery medallion warehouse (raw → curated → visualization).

• Automated CI/CD with audit trails and data-profiling reports via GitHub Actions and Terraform; achieved zero data loss and fully documented lineage.

Earthquakes Lakehouse – ADF → ADLS → Databricks (Spark/Delta) + dbt + Azure Monitor

• Parameterized Azure Data Factory ingestion from USGS with configurable date/magnitude; built Bronze, Silver and Gold tables and dbt marts for daily dashboards.

• Implemented alerting and runbooks through Azure Monitor for observability and issue triage.

EXPERIENCE

Data Engineer — Sono Global Venture | Tampa, FL | June 2022 – Present

• Design and maintain test-driven ELT pipelines across Azure, GCP and AWS using Databricks, dbt, Airflow and Dagster; build medallion architectures and govern data with Great Expectations.

• Develop streaming and batch pipelines that deliver vector-ready datasets for analytics and AI initiatives, optimizing cost and performance through CI/CD and monitoring frameworks.

Software Engineer (Contract) — DevSoft | Tampa, FL | Jan 2022 – 2024

• Developed and optimized React applications with lazy-loading, code splitting and REST API integrations, improving median load time by ~40%.

Biology Teacher — Freedom High School (HCPS) | Tampa, FL | Aug 2023 – Present

• Analyzed and visualized performance data for 150+ students; led data-driven discussions with a team of eight.

EDUCATION & CERTIFICATIONS

Flatiron School — Full-Stack Web Development - Tampa, FL

Friends University — B.S. — Wichita, KS