

Alan Chapman

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SUMMARY

Data Engineer with three years of experience building reliable production pipelines, tested dbt models, and trusted analytical datasets for public sector and operational teams. Hands on work combines SQL, Python, Snowflake, Terraform, **automated testing**, **technical documentation**, and source system analysis. Financial, budget, workforce, and ERP data experience supports accurate planning, reporting, and migration from legacy workflows. Recent delivery includes production ingestion, documented transformations, **data quality** investigation, open data feed migration, and Snowflake cost and usage reporting. Works closely with senior engineers and **department analysts** to trace inconsistencies, explain model outputs, support onboarding, and improve adoption. Code review experience and practical platform learning support sound engineering decisions, dependable delivery, and useful data products for teams that rely on accurate information.

EXPERIENCE

Data Engineer, Public Data Platforms

July 2025 - Present

Northstar Public Data Cooperative

Sacramento, CA

Owns **production data pipelines** and Snowflake delivery for finance, workforce, and operational datasets. Partners with senior engineers and department analysts on tested dbt models, **legacy migration**, data quality, documentation, cost reporting, and trusted dataset adoption.

- Built **Snowflake** pipelines for finance and workforce extracts, adding validation checks for dependable analyst workflows.
- Created tested **dbt** models with lineage and business definitions, giving analysts clearer reporting tables.
- Traced budget discrepancies through source mappings, correcting defects and preventing recurrence with dbt tests.
- Migrated legacy reporting into version controlled **SQL** and dbt workflows, preserving reconciliation checks.
- Produced Snowflake cost reports by workload and period, clarifying resource consumption for platform owners.
- Reviewed code with senior engineers, then explained model outputs and onboarding guidance to **department analysts**.

Junior Data Engineer, Analytics Systems

June 2024 - June 2025

Riverbend Analytics Lab

Sacramento, CA

Supported supervised engineering delivery across Python and SQL ingestion, ERP derived financial models, legacy feed migration, and infrastructure configuration. Contributed tests, documentation, reconciliation, root cause analysis, and reviewed changes that improved analytical reliability.

- Developed **Python** and SQL ingestion jobs for ERP files, adding schema checks and repeatable error handling.
- Modeled financial and workforce records, reconciling control totals against exports to protect **numerical accuracy**.
- Wrote dbt staging models with tests and documentation, making transformations clearer during **code review**.
- Traced duplicate records across source files, documenting root causes and corrective transformation logic.
- Compared legacy and replacement feed outputs, recording exceptions before analyst validated migration cutover.
- Maintained **Terraform** configuration for data platform resources, documenting reviewed deployment steps for teammates.

PROJECTS

Public Data Feed Migration 📅 2025

Partnered with analysts around a shared goal, moving a legacy public data feed into documented SQL and dbt transformations while preserving reconciliation checks and improving confidence in published records.

Platform Usage Reporting 📅 2025

Connected engineering stakeholders around clearer resource decisions by creating Snowflake usage reporting that grouped warehouse activity by workload and reporting period.

LEADERSHIP & AWARDS

- Recognized by senior engineers for tracing budget discrepancies to source mappings and documenting corrective logic.
- Selected for expanded code review participation after delivering dependable dbt tests and clear transformation documentation.
- Earned strong analyst trust by explaining model grain, lineage, source limitations, and published data behavior.

EDUCATION

Associate of Science in Computer Information Systems

Sacramento City College GPA: 3.5

2023

Sacramento, CA

Coursework: SQL, Python programming, database systems, information systems analysis

CERTIFICATIONS

- dbt Fundamentals 📅 2025
- Snowflake Hands On Essentials 📅 2025

TECHNICAL SKILLS

- **Programming Languages:** Python, SQL, Bash
- **Data Transformation:** dbt, SQL models, staging models
- **Cloud Data Warehouses:** Snowflake, warehouses, schemas
- **Infrastructure Configuration:** Terraform, configuration files, reviewed changes
- **Data Quality Testing:** dbt tests, schema checks, reconciliation
- **Pipeline Engineering:** Ingestion jobs, validation checks, error handling
- **Data Modeling:** Dimensional modeling, financial models, workforce models
- **Source Analysis:** ERP extracts, source mappings, identifier tracing
- **Documentation Systems:** Lineage, business definitions, onboarding guides
- **Cost Reporting:** Snowflake usage, warehouse activity, resource consumption
- **Migration Delivery:** Legacy reporting, open data feeds, cutover validation
- **Collaboration Tools:** Code review, analyst workshops, technical walkthroughs

SKILLS

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|--------------------|-----------------|---------------------|--------------------|
| • Data engineering | • Snowflake | • Automated testing | • ERP data |
| • SQL | • Terraform | • Financial data | • Legacy migration |
| • Python | • Data modeling | • Budget data | • Code review |
| • dbt | • Data quality | • Workforce data | |

PROFESSIONAL AFFILIATIONS

- Data Management Association participant, engaging with practitioners focused on reliable data products and governance.
- Snowflake community participant, exchanging practical ideas about warehouse development, testing, and cost visibility.

LANGUAGES

- English (Native)
- Spanish (Beginner)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST