

THANG VAY

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TECHNICAL SKILLS

- **Databases & Systems:** Postgres, AWS RDS, Cloudflare D1, Snowflake, ERP Data Structures, Master Data Management (MDM) Frameworks
- **Programming Languages:** Python, SQL, R, JavaScript, TypeScript, Java, C++
- **Tools:** Git, GitHub, Sigma, Agile, Scrum, Alteryx, Power BI, Google Cloud Service

PROFESSIONAL EXPERIENCE

Pennymac

St. Louis, MO

Business Analyst

04/2026 - 05/2026

- Mitigated seventy million dollars in portfolio risk exposure by isolating one hundred seventy eight systemic data anomalies, achieved by auditing large scale datasets in Snowflake and mapping data points against internal compliance KPIs.
- Increased defect identification efficiency by 35% by translating data governance indicators into structured Snowflake SQL queries and authoring procedural documentation for automated validation models.
- Maintained a ninety nine point four percent pipeline integrity rate across four thousand five hundred transactional records by systematically auditing lifecycle datasets using Snowflake data extraction and Excel validation workflows.

Independent Data Consultant

Remote

Freelance Data Developer

05/2025 - Present

- Increased annualized client revenue by 26% and seasonal occupancy rates by 14% by architecting Python ETL pipelines that programmatically extracted marketplace metrics, executed object transformations, and loaded optimized pricing feeds.
- Reduced off peak vacancy rates and compressed unbooked days by 32% by building automated ETL data integration streams to audit, clean, and load multi year historical reservation datasets for predictive time series models.

Hussmann

St. Louis, MO

Data Analyst

09/2024 - 04/2025

- Resolved over twenty five thousand legacy data discrepancies and achieved a 94% cross system data matching rate by developing a custom Python string matching utility to execute master data governance protocols.
- Eliminated twenty hours of manual data handling monthly and reduced processing latency by 35% by refactoring legacy reporting frameworks into automated Alteryx data integration streams.
- Developed and deployed interactive Power BI dashboards that deliver real time operational risk and data health tracking.

Reinsurance Group of America

St. Louis, MO

Data Engineering Intern

05/2022 - 08/2022

- Automated data migrations across internal enterprise assets, successfully ingesting, transforming, and validating over five hundred daily records by engineering an object oriented Python ETL pipeline.
- Prevented database ingestion errors and enforced strict data compliance protocols by implementing runtime programmatic schema validation constraints across electronic record lifecycles.
- Reduced manual data cleaning scripts by 15% by partnering with technical backend teams to trace domain edge cases and modernize data ingestion logic.

EDUCATION

Saint Louis University

St. Louis, MO

Bachelor of Science in Computer Science (GPA 3.7/4.0)

2019 - 2023