

## Professional Summary

Results-driven Data Engineer with 3+ years designing and managing critical data systems in the airline industry using AWS, Snowflake (incl. Cortex LLMs), and Python. Led projects that automated data enrichment with 95% accuracy; reduced compute costs by 40%; streamlined customer onboarding by 75%. Currently pursuing an M.S. in Computer Science (AI focus) at Georgia Tech.

## Experience

### Airlines Reporting Corporation, Arlington VA/Tampa FL

#### Data Engineer III (Snowflake, AWS)

Jan 2025 - Present

- Architected a Machine-Learning-driven data enrichment pipeline (AWS/Snowflake) to validate incomplete industry datasets, achieving 95% mapping accuracy
- Streamlined onboarding 75% with modular reports covering various customer use cases
- Presented products in 33 demos to key stakeholders including directors, managers, and Snowflake engineers
- Mentored 4 engineers by translating complex business logic into technical requirements to boost velocity 21%

#### Data Engineer II

Mar 2024 - Jan 2025

- Managed 1 business-critical Snowflake data mart that is a dependency for a major revenue stream
- Engineered and automated a pipeline ingesting 50M+ records quarterly from DB1B (DOT Public Data), enabling critical auditing of data submissions against federal reporting requirements

#### Data Engineer I

Oct 2022 - Mar 2024

- Deployed multiple customer reports with various requirements generating significant revenue impact
- Supported production for multiple datamarts and customer reports; improved data quality for 10% of multi-billion-record datamart; and reduced compute cost by 40% by rightsizing resources while still meeting SLAs

### Vassar College, Poughkeepsie NY

#### CS Teaching Assistant / Coach

Jan 2020 - May 2020

- Mentored 24 Software Design and Implementation students with Java both in-person and remote (pandemic)

### Nashville Entrepreneur Center, Nashville TN

#### Program Intern

Jun 2021 – Aug 2021

- Eliminated ~2 hrs/week manual data entry by automating 32K+ row spreadsheet processing via Apps Script

## Competitive and Academic Projects

#### Graduate Projects

Jan 2025 – Present

- **Algorithmic Trading:** Generated 1% excess return vs JPM via RF agent in 1 year out-of-sample backtest
- **Symbolic AI Solver:** Solved 54 ARC-AGI puzzles via hybrid pixel & object heuristics for A\* Search

#### Streamlit Chatbot – Corporate Hackathon Winner

Oct 2024

- Earned 2nd place (of 12 teams) in corporate coding competition judged by senior leadership (VPs/MDs)
- Developed secure RAG LLM chatbot (Cortex COMPLETE & Streamlit) querying internal PDF documents

#### VassarHacks.org Hackathon – Lead Organizer

Aug 2020 – May 2022

- Founded 2 hackathons; led 21 organizing members to get 17 teams, 100+ attendees, \$3.5K budget, \$2K prizes

## Education and Professional Development

### Master of Science in Computer Science (4.00/4.00), Georgia Institute of Technology

Jan 2025 – Present

#### SnowPro Core Certification

Feb 2024

#### Bachelor of Arts in Computer Science (3.70/4.00), Vassar College

May 2022

- Database Systems, Artificial Intelligence, Computer Organization, Data Structures & Algorithms, Statistics

## Skills

**Data/Cloud:** Git | AWS S3, Lambda | Snowflake, Streamlit, Ab Initio | SQL | Scrum, Jira, Confluence, Alation

**Machine Learning:** Python, Numpy, Pandas, Scikit-Learn, TensorFlow, Matplotlib, AIF360

**Generative AI:** Snowflake Cortex, Prompt Engineering, Retrieval Augmented Generation, AI Agents

## Interests

**Chess Puzzles:** peak rating of 2662 (99th percentile)