

Tessa Morgan

Python Data Engineer

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📄 Summary

Python Data Engineer focused on API ingestion and operational automation. Builds reliable data products with Python, FastAPI, Polars, PostgreSQL, pytest, connects engineering decisions to measurable operations, and communicates clearly with cross-functional teams.

🏢 Work Experience

Python Data Engineer

Jan 2022 - Present

Wayfarer Tickets • Philadelphia, PA

- Designed Python and FastAPI pipelines for API ingestion and operational automation at Wayfarer Tickets; while partnering with product, platform, and finance leads, processing 7.8 million ticket rows, and raised on-time delivery from 92% to 99.6%.
- Reworked Polars models and partitioning for the Ticket Import Gateway warehouse; coordinated a 9-person engineering group, cutting median query time from 24 seconds to 4.1 seconds.
- Instrumented schema, freshness, and lineage checks across 38 production tables for API ingestion and operational automation; worked with 14 analysts, reducing data incidents by 63%.
- Automated backfills, alerts, and runbooks around PostgreSQL jobs in Philadelphia, PA; supported 12 markets and saved 86 on-call hours per quarter.

Analytics Engineer

Apr 2019 - Dec 2021

Wayfarer Tickets Data Studio • Philadelphia, PA

- Designed Python and FastAPI pipelines for API ingestion and operational automation at Wayfarer Tickets; with analysts, SREs, and domain owners across the delivery squad, processing 7.8 million ticket rows, and raised on-time delivery from 92% to 99.6%.
- Reworked Polars models and partitioning for the Ticket Import Gateway warehouse; coordinated a 6-person engineering group, cutting median query time from 24 seconds to 4.1 seconds.
- Instrumented schema, freshness, and lineage checks across 38 production tables for API ingestion and operational automation; worked with 5 application teams, reducing data incidents by 63%.
- Automated backfills, alerts, and runbooks around PostgreSQL jobs in Philadelphia, PA; supported 4 business units and saved 86 on-call hours per quarter.

🎓 Education

Master of Science Computer Science and Data Systems

Sep 2015 - Jun 2019

Drexel University • Philadelphia, PA

Skills

- Core stack:** Python • FastAPI • Polars • PostgreSQL • pytest
- Delivery:** Data modeling • Data quality • CI/CD • Observability • Documentation
- Collaboration:** Requirements workshops • Incident response • Mentoring • Agile delivery

Projects

Ticket Import Gateway

Built a governed data product for API ingestion and operational automation, with documented ownership, tested transformations, and an analyst-ready serving layer.

Technologies: Python • FastAPI • Polars • PostgreSQL

Certifications

- Python Institute PCAP**
Professional Training Board

May 2024
- Data Reliability Workshop**
Data Engineering Guild

Aug 2023

Languages

English: Native **Dutch:** Professional working proficiency