

STEPHEN XIA

Data Engineering



(201) 452-0703



stephen.xia@gmail.com



www.stephenyx.com

SUMMARY

Data Engineer with over 5 years of experience building data pipelines, creating canonical data models, and influencing decision making through reporting. I have experience working across varied sectors such as finance, nonprofits, and healthcare. I aim to be the best engineer that I can by developing deep domain and business knowledge, passionately owning my work, collaborating and communicating effectively with my colleagues, and consistently growing my technical skills.

SKILLS/TOOLING

- Python (pandas, prefect, polars, requests, matplotlib/seaborn, snowpark, great expectations, dataprofiler)
- Snowflake, PostgreSQL, SQL Server, Power BI, Git

EXPERIENCE

CenterWell Senior Primary Care – Senior BI Engineer

JUL 2024 - PRESENT

- **Data Engineering & Orchestration:** Created daily, multi-step data pipelines using Python and Prefect to ingest data from Salesforce via API calls and piped the data into Snowflake data marts for reporting and analytics.
- **Data Engineering:** Enhanced our ingestion engine by contributing custom parsing scripts for variegated flat files from 15+ insurance providers.
- **Data Engineering and Data Modeling:** Integrated and harmonized variegated data sources into canonical data sets and models for medical claims. We used a medallion architecture to validate, enrich, and promote the data and a star schema for modeling.
- **Reporting and BI:** Created dashboards in Power BI to analyze data quality at ingestion (timeliness, relative volume, accuracy, etc.) along with notifications for data anomalies.
- **Executive-Level Reporting and Stakeholder Management:** Created daily reports requested by our executive team (VPs, SVPs, President) to gain insights into our membership trends at a glance.
- **Awards and Recognition:** Received a second STAR award, a company-wide and significant award given for completing key initiatives and significant process improvements.

CenterWell Senior Primary Care – Business Intelligence Engineer

JUL 2023 - JUL 2024

- **Data Engineering & Orchestration:** Created data pipelines using Python and Prefect to transmit flat files about our members' Medicare compliance to 8+ insurance partners which drove our STARS measures higher and resulted in higher membership enrollment and profitability.
- **Data Engineering and Orchestration:** Ingested call marketing data using Python and Prefect from an API and piped the data into Snowflake for a Marketing data mart.
- **Orchestration and Reporting:** Created a reporting pipeline using Prefect to send reports to our partner physicians when we received data on new patient admits. This pipeline was part of a pilot program to improve our partnerships with physicians by addressing their needs for near-real time updates on their patient population.
- **Awards and Recognition:** Received my first STAR award, a company-wide and significant award given for completing key initiatives and significant process improvements. Recipients of this award are publicly recognized for their achievements.
- **Mentorship and Team Building:** Hosted weekly office hours with juniors and less-technical members of the analytics team to help them understand how to more effectively use their development environments and answer questions about Python and version control. Designed a short 6-session class that taught the fundamentals of working with data in Python.

The Midway Group – Assistant VP, Trading Desk

MAY 2014 - JAN 2016

- **Data Analytics and Decision Making:** Helped generate 20%+ returns YoY on the investment portfolio by finding trading edges through EDA and purchasing \$225mm of fixed-income products.
- **Data Analytics and Engineering:** Improved efficiency of the portfolio management team by 20%+ through developing analytics tools and processes with Python and SQL to centralize, aggregate, and perform valuation on \$200 million of daily MBS offerings from various Wall St. trade desks and dealers.
- **Data Engineering:** Built dashboards with real-time data to manage risk on a \$2 billion fixed-income portfolio. Hedged risk on the portfolio by trading interest rate products and derivatives.

The Midway Group – Data Analyst

MAY 2011 - MAY 2014

- **Data Analytics and Reporting:** Performed exploratory data analysis to create daily and monthly reports on trading opportunities in the Agency MBS market. These reports were used by portfolio managers to make investment decisions.
- **Data Engineering:** Increased the productivity of the research department by 5x through collaboration with data engineers to automate key aspects of our data processing with Python and efficiently prepare time-series datasets for analysis with SQL and SAS.
- **Data Engineering:** Created ETL processes and data pipelines in Python and SQL to clean and prepare large datasets for time-series forecasting of prepayment speeds on Agency MBS deals.

EDUCATION

**The Southern Baptist
Theological Seminary**
Master of Theology
2020 - 2023 | GPA: 3.79/4

**The Southern Baptist
Theological Seminary**
Master of Divinity
2016 - 2020 | GPA: 3.89/4

**The University of Illinois at
Urbana-Champaign**
Bachelor of Science, Psychology
2006 - 2010 | GPA: 3.54/4