Brian Xu

Senior Data Engineer
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SUMMARY

Senior Data Engineer with 4+ years of experience building and automating data pipelines with Python, SQL, and Snowflake. Focused on data quality, performance, and delivering reliable, analytics-ready data.

WORK EXPERIENCE

Senior Data Engineer, Escalent 2022 – Present

- Built and maintained scalable pipelines to ingest, transform, validate, and publish business-critical datasets.
- Automated data delivery workflows, cutting delivery times by up to 99% and reducing manual errors.
- Processed large structured and semi-structured datasets with Python, Pandas, and Polars, improving performance by ~50%.
- Wrote and optimized SQL in Snowflake for transformation, reconciliation, and analytics-ready datasets.
- Designed automated data quality checks, anomaly detection, and monitoring that identified ~90% of data issues.
- Cut deployment time by 67% by standardizing and automating deployments.
- Developed a sentiment analysis project using the open-source Laya model to classify and score sentiment in text data.
- Created Python visualizations used by analysts to review data profiles, quality trends, and key metrics.

Junior Python Developer, Torchbox 2020 – 2022

- Built full-stack web solutions with Python, Django, and Wagtail CMS for clients including NHS, Oxfam, and M+.
- Developed backend features, API integrations, and CMS customizations for high-traffic platforms.
- Contributed to the Wagtail open-source ecosystem.

EDUCATION

Information and Communications Technology Academy 2016 – 2020
Bachelor of Computer Science (Software Engineering), Cum Laude

CERTIFICATIONS

Data Engineering Professional Certificate, Snowflake
Associate Data Engineer in SQL, DataCamp
Associate Data Engineer in Snowflake, DataCamp
Azure App Services, DataCamp

SKILLS

Data Engineering: ETL/ELT Pipelines, Workflow Automation, Data Quality & Validation, Performance Optimization
Languages & Query: SQL, Python, Pandas, Polars
Visualization: Python (Matplotlib, Seaborn, Plotly)
Databases: Snowflake, PostgreSQL, MySQL
Frameworks: Django, Flask, Streamlit
Web Scraping: Scrapy, Selenium, Playwright
Cloud & Systems: AWS (S3, EC2), Azure (App Service, Functions, Key Vault), Linux
Tools: Git, CI/CD, Autosys

LANGUAGES

English • Chinese • Filipino