JASON LI

priority.jasonli@gmail.com | linkedin.com/in/jasonli2003 | github.com/jasonli-git | jasonli.app

EDUCATION

Rutgers Business School, Rutgers University **New Brunswick, NJ**

Bachelor of Science in Business Analytics and Information Technology (Minor in Data Science) May 2025

- **GPA:** 3.84 / 4.00 | Magna Cum Laude | **Honors:** Dean's List (All Semesters)
- **Relevant Coursework:** Regression Methods, Applied Statistical Learning, Data Wrangling with R, Business Data Management, Business Decision Analytics Under Uncertainty

PROJECTS

Housing Intelligence Platform | *Python & DuckDB • PostgreSQL & PostGIS • Next.js & FastAPI*

- Built an eight-stage ELT platform integrating **60+ public sources**; processed **3.48M parcels and 1.4M deeds** with DuckDB/dbt into a validated PostgreSQL/PostGIS warehouse.
- Developed SQL analytics for housing costs, affordability, transactions, construction, migration, taxes, and risk across **21 counties, 564 towns, and 598 ZIP codes**, published through FastAPI and a Next.js site with maps, reports, and five decision tools.
- Engineered an AI explanation layer that converts verified statistics into cited plain-English summaries; benchmarked local and hosted models and rejected unsupported figures.
- Automated weekly source refreshes, rebuilds, deployment, and live-site checks; added revision tracking that captured **313K+ changed figures**, including **294K+ Zillow historical restatements**.

Cortex AI Personal Knowledge System | *Python & FastAPI • SQLite & RAG • React & TypeScript*

- Built a local-first AI knowledge system that converts PDFs, Markdown, text, and notes into structured knowledge objects, typed relationships, and **quote-level source provenance** through a durable ingestion pipeline.
- Implemented **hybrid semantic + full-text search** with local embeddings and reciprocal-rank fusion; built RAG chat that distinguishes cited source-backed claims from general model knowledge.
- Shipped a React/TypeScript interface with live pipeline status, interactive knowledge graphs, object-level provenance, **duplicate detection and version history**.

StickiesSync | *Swift • SQLite • CryptoKit*

- Built a macOS synchronization system for Apple Stickies that tracks notes individually, enabling **change detection, version history, deleted-note recovery, and conflict resolution** across multiple Macs.
- Implemented **end-to-end encryption**, secure pairing, safe write-back, and background sync; validated with **225 tests and two real Macs.**

Powerball Draw Analysis | *MySQL Data Pipeline • Tableau Dashboard*

- Built a **MySQL ELT pipeline** to ingest and clean **15 years of data (1,859 draws)**, calculating even/odd ratios, ball sums, and positional trends, then published an **interactive Tableau Public dashboard** with distribution charts, Power Play trends, and dynamic filters; automated via a master script.

CERTIFICATIONS & TRAINING

AWS Cloud Practitioner (AWS Academy) | **AWS AI Practitioner** (AWS Academy)

SKILLS

- **Programming & SQL:** Python, SQL, R
- **Data Platforms & Transformation:** PostgreSQL/PostGIS, DuckDB, dbt, MySQL, SQLite, ELT/ETL Pipelines
- **Analytics Engineering:** Data Modeling, Data Warehousing, Data Quality Testing, Data Validation
- **BI & Analysis:** Tableau, Excel (PivotTables, Power Query, XLOOKUP), Dashboard Design, Data Visualization
- **Tools & Collaboration:** Git, Docker Compose, Microsoft 365, Google Workspace