

JASON LI

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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** that turns New Jersey property and public data into analysis-ready records. Processed **3.48M parcels** and **1.4M recorded deeds** with DuckDB, then loaded validated housing and economic measures into a PostgreSQL/PostGIS warehouse spanning **48 public sources**.
- Wrote **SQL analytics** to show how home values, rents, affordability, construction, migration, and property taxes change across regions. Produced **38K+ computed changes** and **~54K regional rankings** in the September 2026 snapshot; served results through a FastAPI API and Next.js dashboard with interactive maps and reports.
- Engineered an **AI explanation feature** that turns verified housing statistics into plain-English summaries; evaluated local and hosted models, linked figures back to their sources, and blocked explanations containing unsupported figures.
- Automated **data refreshes** so unchanged files are skipped, while a **database-triggered revision log** preserves changes to previously published values. Added clear run statuses for unattended scheduling; the first refresh caught Zillow restating **294K+ historical values**.

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

- Built a **local-first AI knowledge system** using Python, FastAPI, and SQLite that turns PDFs, Markdown files, and notes into a searchable knowledge base with **citations to the original source files**, using **hybrid semantic and SQLite (RAG)** to distinguish cited information from general AI-generated responses.
- Shipped a **React/TypeScript interface** with live processing status and **interactive knowledge graphs**; built pages for individual documents and concepts, with **relationship tracking, 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