

Gil Lu

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Education

CUNY Baruch

M.S. Information Systems, Data Analytics

Aug 2026

3.80/4.0

CUNY Brooklyn

B.S. Computer Science, Data Science Minor

May 2025

3.55/4.0

Experience

Data Analytics Intern

Feb 2026 – Present

NYC Aging, Social Service Agency

New York, NY

- Analyzed and validated program datasets across 11 service categories using SQL and Tableau, identifying data quality gaps and ensuring integrity on services reaching over 200,000 older New Yorkers
- Built Tableau dashboards consolidating program performance metrics for leadership, enabling data-driven decision-making across divisions
- Designed centralized data request tracking interface, streamlining the intake-to-delivery pipeline and improving turnaround visibility for both internal analysts and external agency stakeholders

Software Engineer Intern

Jul 2021 – Aug 2021

MetaBronx, Startup Accelerator

Brooklyn, NY (Remote)

- Supported backend development using Python to streamline internal data collection workflows, reducing manual processing steps for the accelerator's outreach
- Built and tested front-end UI components and REST API endpoints for the organization's web platform, supporting program operations

Projects

Bertram – AI Email/Inbox Management Platform

github.com/gil10101/Bertram – bertrammail.com

- Developed a full-stack email client with unified Gmail and Outlook sync, Google OAuth 2.0 authentication, and a Next.js/TypeScript frontend backed by a FastAPI REST API and PostgreSQL
- Integrated LLM APIs to power automated summarization, reply drafting, priority classification, and inbox organization; built meeting scheduling workflows and threaded conversation views

Customer Churn Analysis and Prediction – Telecommunications Analytics

github.com/gil10101/Custom-Churn-Analysis-and-Prediction

- Engineered an end-to-end churn prediction pipeline on 7,000+ customer records using Python (pandas, scikit-learn, PyTorch), performing EDA, feature engineering, survival modeling, and customer segmentation to isolate key retention drivers
- Trained and benchmarked 7 ML models (Ensemble, XGBoost, Neural Networks), achieving 86.9% accuracy; generated 40+ visualizations and designed A/B testing frameworks to quantify projected churn reduction

License Plate Recognition System – Computer Vision Platform

github.com/gil10101/License-Plate-Recognition-System

- Built a Flask-based detection platform combining YOLOv5 object detection with Tesseract OCR, processing vehicle imagery for automated license plate recognition and structured data extraction
- Developed an end-to-end data pipeline with image preprocessing, CUDA-accelerated inference, and a metrics suite integrated with Power BI and Tableau for model performance analysis

Technical Skills & Certifications

Languages: Python, SQL, R, JavaScript, TypeScript, Java

Libraries & Frameworks: Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, SciPy, TensorFlow, PyTorch

Data & Analytics: Tableau, Tableau Prep, Power BI, Excel, SSMS, BigQuery, OpenCV, Tesseract OCR, CUDA

Databases: PostgreSQL, MySQL, AWS Aurora, MongoDB, Supabase, Neo4j, BigQuery

Development & Cloud: Git, Docker, AWS (EC2, EMR, Lambda), Flask, FastAPI, HTML/CSS