John Isik

johnisik314@gmail.com | http://john-isik.com | (347) 984-9154

Education

Stevens Institute of Technology, NJ

Master of Science in Data Science | GPA:3.5 May 2026

Relevant Coursework:

- Linear Algebra, Probability Distributions, Probability Theory, Web Mining, Applied Machine Learning.

CUNY Queens College, NY

Bachelor of Art in Computer Science

Minor in Applied Mathematics May 2023

Relevant Coursework:

- Object-Oriented Programming (C++ and Java), Data Structures, Discrete Math, Linear Algebra, Calculus.

Professional Experience

COOP Careers, New York, NY

Data Analytics Fellow February 2025 - June 2025

- Participating in a **200-hour** Data Analytics Fellowship focused on SQL, Tableau, Excel, and data-driven decision-making.
- Collaborating on a **capstone project**, analyzing real-world datasets and building dashboards using Tableau.
- Developing technical skills in **data collection, cleaning, analysis, and visualization** through hands-on projects.

Upwork, Queens, NY

Data Analyst Freelance December 2024 - February 2025

- Conduct **machine learning analysis** to deliver predictive insights tailored to client needs.
- Perform **web scraping** to extract and preprocess **large datasets**, ensuring data quality and usability for analysis.
- Manage and maintain client databases, ensuring accuracy, integrity, and seamless data integration across platforms.

Projects

Thyroid Cancer Risk Prediction

Data Analyst February 2025

- Developed a **machine learning pipeline** to predict **thyroid cancer risk** based on demographic and medical data.
- **Preprocessed 212,691 records**, handling missing values and encoding categorical variables for optimal model performance.
- Trained a **Random Forest model (61% accuracy)**, revealing **ethnicity and family history as key predictors.**
- Created feature importance **visualizations** and **ethnicity-based risk distribution charts** using **Seaborn and Matplotlib.**

Household Energy Consumption Analysis

Data Analyst October 2024

- **Analyzed household energy consumption data** using Principal Component Analysis (PCA) for dimensionality reduction, capturing key usage patterns while simplifying feature complexity.
- **Segmented households into clusters** using K-Means which revealed seasonal trends and consumption behaviors.
- **Preprocessed large datasets** by handling missing values, aggregating daily totals, and transforming time-based features for analysis, improving data quality and interpretability.
- **Streamlined** development, **reducing completion time by 25%** through core feature focus.

Technical Skills

- **Programming Languages**: Python, Java, C++, SQL, Shell.
- **Data Science Tools**: Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch.
- **Visualization**: Matplotlib, Seaborn, Tableau.
- **Other Tools**: Git, Jupyter Notebooks, Microsoft Excel, MangoDB, BeautifulSoup.

Certifications

- **SQL Certification** - Mimo.org (August 2024),
- **IBM Data Science Orientation** (October 2024)