

# Gary Yu

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## EXPERIENCE

### Data Quality Analyst | Cambium Learning Group | Columbus, Ohio | May 2025 - Present

- **Automate ETL pipelines** using Python, increasing efficiency by 40% and reducing data processing errors by 50%.
- **Use Pandas and NumPy** to extract, clean, and transform Excel data, correct inconsistencies, and export clean datasets to CSV, increasing reporting efficiency by 30%.
- **Manage SQL Server databases** using SSMS, performing backups, optimizing queries, and controlling access to ensure high availability and improve system performance.
- **Automate data entry processes** in Excel by leveraging advanced formulas (XLOOKUP, nested IF statements), PivotTables, VBA macros, and Power Query to streamline workflows, reduce manual input time, and enhance data accuracy.

### Data Analyst | Ewin International Corp. | Dublin, Ohio | April 2023 - Present

- **Automate market research:** data collection using Selenium and Python scripts, saving \$50,000 annually in labor costs.
- **Streamline operational workflows:** using Excel-based ad hoc analysis, reducing manual labor by \$3,000 weekly.
- **Manage 1,000+ monthly fiscal records:** using Excel (macros, Power Query) and relational databases, improving reporting accuracy and contributing to \$5,000 in monthly revenue growth.
- **Manage SQL Server databases:** writing optimized queries to analyze 1,000+ operational data points, improving performance and data integrity.

### Data Analyst | Lutheran Social Services of Central Ohio | Columbus, Ohio | October 2024 - March 2025

- **Analyzed and visualized** 100,000+ data points using Python (NumPy, Pandas) and Power BI, uncovering key trends, optimizing reporting, and delivering insights that improved decision-making and operational efficiency.
- **Automated data cleaning** for 100,000+ records in Excel (VBA), streamlining transformations and report generation, reducing processing time by 30%, and improving data accuracy.
- **Managed and analyzed** 100,000+ records in Apricot and ECW, using built-in SQL-like reporting tools to enhance case management and support data-driven decision-making.

### Data Quality Analyst | Cambium Learning Group | Columbus, Ohio | May 2024 - July 2024

- **Automated ETL pipelines** using Python, increasing efficiency by 40% and reducing data processing errors by 50%.
- **Used Pandas and NumPy** to extract, clean, and transform Excel data, correcting inconsistencies and exporting clean datasets to CSV, increasing reporting efficiency by 30%.
- **Managed SQL Server databases** using SSMS, performing backups, query optimization, and access control to ensure high availability and improve system performance.

### Financial Data Analyst | UCS Logistics | Urbancrest[Grove City], Ohio | July 2022 - November 2023

- **Managed and executed** invoicing processes for \$1.2M in monthly revenue, ensuring compliance and timeliness while maintaining strong client relationships using Excel (VBA), T-SQL, and Power BI.
- **Identified and resolved** \$300,000 in fiscal discrepancies within one month through in-depth analysis using Excel (Power Query) and T-SQL.
- **Developed automated solutions** using Python (Pandas, Selenium) and UiPath, contributing to a \$100,000 monthly revenue increase by improving operational efficiency.
- **Automated data entry workflows** in ServiceNow by building UiPath RPA bots, streamlining processes to reduce manual processing time by 60%, increasing throughput to 1,200 transactions per day, and minimizing data entry errors by 85%.

### Independent Financial Data Consultant | Self-Employed | Lewis Center, Ohio | July 2021 - July 2022

- **Tutored clients in SQL (joins, select statements), R (statistical analysis), Stata (regressions), and Python (NumPy, Pandas, Openpyxl)**, enhancing their data analysis skills and contributing to high client satisfaction and long-term referrals.
- **Provided financial consulting services**, including 1040 tax return analysis and credit card transaction reviews. Advised clients on deduction strategies to optimize tax outcomes and offered personalized financial planning to enhance long-term financial well-being.

### Financial Analyst Internship | Central Ohio Tax Company | Columbus, Ohio | April 2021 - June 2021

- **Developed tax models and financial reports** using Drake Tax Software, Excel, and QuickBooks, resulting in \$15,000 in optimized tax savings by streamlining filings and reducing client liabilities.

## **Business Analyst(BA) Trainee | Chang and Yee LLC | New Albany, Ohio | July 2020 - December 2020**

- **Streamlined asset management and marketing workflows** using Excel, Access, and PowerPoint, leading to a \$60,000 revenue increase and \$20,000 in monthly recurring revenue through improved digital outreach and strategy execution.

## **PROJECTS**

### **GitHub Portfolio | GitHub | [github.com/Yu2413](https://github.com/Yu2413)**

- Built a portfolio of projects combining Microsoft 365 tools with advanced statistical analysis using Excel, R, Python, SQL, and Stata.
- Designed and implemented Python-based workflows for data analysis, automation, and machine learning applications.
- Developed complex SQL queries and data pipelines; built interactive dashboards and visualizations using Power BI and Tableau.

### **Various Variables on Wages | Ohio State University | [github.com/Yu2413](https://github.com/Yu2413)**

- Researched wage differentials in labor economics using Python, Stata, and R, analyzing the effects of education, work experience, and region on compensation; cleaned and modeled data, interpreted results, and presented findings through Excel visualizations and a PowerPoint deck.

### **Rising Populations, Slowing Economies | Ohio State University | [github.com/Yu2413](https://github.com/Yu2413)**

- Analyzed the relationship between population growth and economic performance using OLS regression in Python, Stata, and R; explored diminishing returns to scale in large populations; and identified drivers of stagnating per capita GDP growth through statistical and econometric methods.

## **SKILLS**

**Programming & Scripting:** Python (NumPy, Pandas, scikit-learn, Matplotlib, PyTorch, pymssql, PyMySQL, Openpyxl, Selenium), R, Stata, VBA

**Data Visualization & Reporting:** Power BI, Tableau, DAX, Excel (Expert) - (PivotTables, Power Query)

**Databases & Querying:** T-SQL, PostgreSQL (PL/pgSQL), MySQL, SSMS, Oracle SQL Developer (PL/SQL)

**Generative AI Tools:** OpenAI APIs, Claude, DeepSeek, Copilot, HuggingChat

**Collaboration & Cloud:** GitHub, AWS, Jira, Confluence, SharePoint, Microsoft Teams

**Languages:** English (fluent), Taishanese (native), Spanish (intermediate), Cantonese (beginner)

## **EDUCATION**

### **Master of Science in Data Analytics (MSDA) | Franklin University**

Columbus, OH | 2023

- **Completed graduate-level assignments** in statistical methods, including random forest, decision trees, time series analysis, regression (OLS, logistic, linear), clustering (KNN), and principal component analysis (PCA).
- **Studied core database concepts** such as entity-relationship modeling, SQL schema design, data flow diagrams, and applied statistics.
- **Completed significant graduate coursework** in predictive modeling and database design. Degree not completed due to family medical obligations.

### **Dual Bachelor's Degree in Economics - Industrial & Labor Economics | Political Science - Foreign Affairs**

#### **| The Ohio State University | Minor in World Affairs**

Columbus, Ohio, United States | 2022

- **Gained interdisciplinary exposure** to healthcare policy, international trade, and industrial organization through coursework in economics and political science.
- **Applied programming skills** in Python, R, Stata, Excel, and MS Access in econometrics and database-focused courses.
- **Developed strong quantitative and qualitative research abilities**, including survey design, random sampling, statistical modeling, and interpretation of large-scale datasets.