YENGKONG SAYAOVONG   DATA ANALYST

Delivering financial clarity through advanced analytics, scalable reporting, and data infrastructure.

414-739-1246 | YSayaovong@gmail.com | Milwaukee, WI (Open for relocation) | [LinkedIn](#) • [GitHub](#) • [Portfolio](#)

SUMMARY

Financial Data Analyst with a strong foundation in financial modeling, reporting automation, and business intelligence. Experienced in building dashboards, streamlining reporting processes, and delivering insights using Power BI, Excel, SQL, and Python. Proven ability to connect financial operations with data strategy by leveraging tools such as DAX, VBA, and ETL pipelines. Brings a unique background in engineering and infrastructure to drive accuracy, scalability, and strategic decision-making across finance teams.

TECHNICAL SKILLS

Data Analysis & Reporting: Excel (Power Query, VBA, PivotTables, Financial Modeling), Power BI (DAX, Measures), SQL

Forecasting & BI Tools: KPI Reporting, Time Series (Prophet, SARIMAX), Regression, Scenario Planning

Database & Cloud: PostgreSQL, AWS (S3, Lambda, RDS, Redshift), Snowflake

Automation & Visualization: Python (Pandas), Excel Automation, Power BI Dashboards, Excel Dashboards, Data Storytelling

PROJECTS

Enterprise Financial Forecasting System *Python | SQL | Financial Modeling | Power BI* – April 2025
- Built an **end-to-end forecasting platform** using **Python** and **PostgreSQL** to automate monthly **revenue and expense projections** for a **retail portfolio**.
- Created **interactive Power BI dashboards** to visualize **forecast accuracy**, key assumptions, and **YoY performance trends** for **executive review**.

Sales Drivers Forecasting Model *Python | Prophet | KPI Forecasting | Power BI* - April 2025
- Developed a **driver-based forecasting model** using **Prophet** to predict 12-month **sales and revenue** based on **marketing spend**, **CPC**, and **competitor index**.
- Calculated **MAE**, **RMSE**, and **MAPE** to evaluate **forecast performance**, and designed **executive KPIs** in **Power BI** for **scenario-driven planning**

Credit Card Fraud Detection *Python | Machine Learning | Data Science* – April 2025
- Built a **supervised machine learning pipeline** to identify **fraudulent transactions** using **imbalanced dataset handling** and **scikit-learn**
- Evaluated **model performance** with **confusion matrix**, **precision-recall curve**, and optimized thresholds for **financial fraud risk detection**.

PROFESSIONAL EXPERIENCE

Financial Data Analyst
Robert William Park Water Association (RWPWA) | March 2025 – Present | Part-Time
- Constructed and maintained financial dashboards in **Excel and Power BI** to monitor revenue, expenses, and cash flow, ==reducing decision turnaround time by 30%.==
- Formulated financial models in **Excel and DAX** to project cash flow trends and operational expenses, ==increasing planning accuracy by 25%.==
- Automated financial reporting processes, ==reducing manual errors by 90%== and ==cutting reporting time by 50%.==
- Established **KPIs** to track financial performance and fund utilization, ==improving reporting transparency by 40%.==

- Oversaw financial compliance efforts, including audits, risk analysis, and regulatory tracking to safeguard organizational assets, contributing to a 100% audit pass rate.
- Identified inefficiencies in workflows and optimized processes using advanced **Excel formulas, Power Query, and automation**, saving 10+ hours monthly in operational overhead.

Mechanical Designer
Prolec-GE Waukesha | October 2020 – Present | Waukesha, WI

- Engineered and streamlined **Excel-based** reports and dashboards, ensuring 100% on-time delivery.
- Developed and maintained a project tracking system in **Excel** to monitor transformer detailing stages, reduce quality issues, and improve delivery timelines. Automated error classification logic and introduced data validations, enabling 20% faster issue resolution and enhanced reporting visibility.
- Leveraged **SAP and ETQ** systems to extract, manage, and validate design-related data, ensuring alignment between design records, quality documentation, and production requirements.
- Conducted quality audits and data validation checks on design documents improving documentation accuracy.
- Collaborated with engineering and quality teams to identify errors and implement corrective actions.
- Utilized **OCR** tools to digitize and extract structured data from legacy paperwork, streamlining documentation processes and enabling faster access to critical design information.
- Trained new team members on data processes, compliance standards, and reporting systems, reinforcing a data-driven culture across the mechanical design department.

Dev Ops Intern
Oeson | January 2025 – March 2025 | Waukesha, WI

- Developed automated **CI/CD pipelines**, reducing deployment time by 35% and improving system reliability.
- Optimized cloud resource utilization in **AWS** through auto-scaling strategies, leading to a 20% decrease in operational costs.
- Engineered real-time monitoring dashboards using **Python and Prometheus**, increasing system uptime and response efficiency by 40%.
- Automated system performance logging and tracking, enabling data-driven infrastructure enhancements.
- Collaborated with cross-functional teams to integrate over 500 projects, advancing system scalability and deployment processes.

Data Engineer Intern
Prolec-GE Waukesha | November 2024 – January 2025 | Waukesha, WI

- Designed and maintained **ETL pipelines** with **SQL** and **Python**, improving data accessibility and transformation workflows.
- Constructed batch and streaming pipelines with **Spark** and **Kafka**, reducing data latency by 25%.
- Leveraged big data frameworks such as **Hadoop** and **Spark** to manage high-volume datasets, cutting retrieval times by 30%.
- Visualized data insights using **Matplotlib** and **Seaborn**, translating technical findings into **business intelligence**.
- Enhanced data quality through robust validation and transformation processes, elevating data trustworthiness.

EDUCATION

B.S., in Information Technology, minor in music | Arizona State University | Expected Dec 2025

Data Analyst Bootcamp | Zero to Mastery Academy | Feb 2025

A.S., in Mechanical Design Technology | Milwaukee Area Technical College | Apr 2021