

Yengkong Sayaovong

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Summary

Data-driven Business Intelligence Analyst with 5 years of experience in mechanical design, transitioning into BI. Skilled in dashboard development and data visualization using Excel, with growing expertise in Power BI and SQL. Passionate about transforming data into meaningful insights to support business intelligence, financial reporting, and operational forecasting.

Education

- B.S., in Information Technology, minor in music** | *Arizona State University* | Jan 2022 – Expected Dec 2025
- Data Analyst Bootcamp** | Zero to Mastery Academy | Oct 2024 – Feb 2025
- A.S., in Mechanical Design Technology** | *Milwaukee Area Technical College* | Sept 2017 - Apr 2021

Certifications

- Associate Data Engineer in SQL** | *DataCamp* | Jan 2025
- Google Data Analytics Professional Certificate** | *Google* | Jan 2025
- Data Analyst in Python** | *DataCamp* | Nov 2024
- Google Business Intelligence Certificate** | *Google* | Aug 2024
- Google Project Management Professional Certificate** | *Google* | Oct 2024

Technical Proficiencies

- Business Intelligence & Data Visualization:** Power BI (DAX, Power Query, Data Modeling, RLS), Excel (PivotTables, Macros, VBA), Python (Matplotlib, Seaborn)
- Data Analytics & SQL:** Advanced SQL (Joins, CTEs, Indexing, Performance Tuning), KPI Reporting, Predictive Modeling
- ETL & Data Engineering:** SQL, Python (Pandas, NumPy), Airflow, dbt, Data Warehousing (AWS Redshift, Snowflake)
- Automation & Scripting:** Python (ETL Automation, APIs, Web Scraping), Excel Macros, CI/CD Pipelines
- Machine Learning & Forecasting:** Time Series Analysis (Prophet, SARIMAX, LSTM, Silverkite), Regression Models
- Cloud & Infrastructure:** AWS (S3, Lambda, RDS, EC2, Auto-scaling), Terraform, Kubernetes, GCP BigQuery
- Big Data & Processing:** Spark, Kafka, Hadoop (for large-scale data processing)
- Power Transformer Analytics:** Transformer Failure Prediction, Load Forecasting

Career Highlights

Mechanical Designer | Prolec-GE Waukesha – Waukesha, WI 10/2020 – Present

- Developed and optimized **Excel-based reports and dashboards**, ensuring **100% on-time data delivery** while maintaining compliance with reporting standards.
- Built **interactive Excel dashboards** with pivot tables, Power Query, and advanced formulas to improve **data visualization and decision-making**.
- Utilized **Excel analytics** to identify workflow bottlenecks, leading to a **20% increase in reporting efficiency**.
- Conducted **data validation and cleansing** within Excel, improving **reporting accuracy by 25%** and ensuring compliance with industry standards.
- Integrated **large datasets from multiple sources** into Excel for in-depth analysis, supporting **operational forecasting and financial reporting**.
- Automated **manual reporting tasks using Excel macros**, increasing team productivity by **30%** and reducing time spent on data processing.

- Collaborated with **cross-functional teams** to enhance forecasting accuracy and streamline **data-driven decision-making**.
- Led team meetings to analyze data insights and **resolve reporting challenges**, improving workflow efficiency by **20%**.
- Designed training materials and conducted Excel workshops, onboarding **10+ team members** in data analytics best practices.

Dev Ops Intern | Oeson – Remote

01/2025 – Present

- Developed **automated CI/CD pipelines**, reducing deployment time by **35%** and enhancing system reliability.
- Optimized **cloud resource allocation** in AWS by implementing **auto-scaling strategies**, leading to a **20% reduction in operational expenses**.
- Created **real-time monitoring dashboards** using **Python and Prometheus**, improving **system uptime and response times by 40%**.
- Automated **system performance tracking** and logging, enabling **data-driven decision-making for infrastructure improvements**.
- Collaborated with **cross-functional teams** to integrate **50+ microservices**, improving **system architecture and deployment processes**.

Data Engineer Intern | Refonte Infini – Remote

11/2024 – 01/2025

- **Designed and managed ETL pipelines** using **SQL and Python**, streamlining **data ingestion and transformation** for improved **data accessibility**.
- Developed and maintained **real-time and batch data pipelines** with **Spark and Kafka**, reducing **processing latency by 25%**.
- Implemented **big data frameworks** such as **Hadoop and Spark** to manage large datasets, cutting **data retrieval time by 30%**.
- Created **interactive data visualizations** using **Matplotlib and Seaborn**, translating **complex datasets into actionable business insights**.
- Improved **data quality and integrity** through rigorous **data validation and transformation processes**.

Projects

Virtual Escape Room | Zero To Mastery

12/2024

- Developed an interactive data-driven game in Python to showcase data processing and user behavior analytics.
- Built robust data validation workflows to ensure clean input and implemented logging for monitoring system performance.
- Automated data collection and analysis using Python libraries (Pandas, NumPy) to evaluate game metrics and trends.
- **Technologies:** Python, Jupyter Notebook, Data Validation Tools.
- **GitHub:** <https://github.com/YSayaovong/virtual-escape-room>

Titanic Dataset Analysis | Refonte Infini

11/2024

- Processed and analyzed large datasets using Python to uncover survival trends and patterns, including feature engineering.
- Designed a reproducible ETL workflow for data cleaning and transformation, ensuring data quality for predictive modeling.
- Created data visualizations to communicate statistical insights and model results effectively to non-technical audiences.
- **Technologies:** Python (Pandas, NumPy, Matplotlib, Seaborn), Jupyter Notebook.
- **GitHub:** <https://github.com/YSayaovong/Titanic-Dataset-Analysis>