

Yengkong Sayaovong

414-739-1246 • Milwaukee, WI (Open for relocation)

YSayaovong@gmail.com • [LinkedIn](#) • [GitHub](#)

Education

B.S., in Information Technology, minor in music | *Arizona State University* | 2022 – Present

Zero To Master | *Data Analyst Career Path* | 2024 - Present

DataCamp | *Associate Data Engineer in SQL* | 2024 - Present

A.S., in Mechanical Design Technology | *Milwaukee Area Technical College* | 2017 – 2021

Technical Proficiencies

Data Engineering Tools: SQL, Python, ETL Pipelines, Data Pipelines Design

Data Analysis: Advanced Excel (data tracking, cleaning, visualization, reporting), Data Transformation, Business Insights

System Design & Optimization: Database Schema Design

Technical Tools: OCR, ETQ Analysis Tools

Collaboration & Training: Process Documentation, Hands-On Training, Team Facilitation

Career Highlights

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

- Designed and drafted mechanical components and assemblies using CREO 8.0, ensuring clearances, oil levels, and part placements met project requirements and design guidelines.
- Created a design tracking system using advanced Excel techniques (VLOOKUP, XLOOKUP, PivotTables) to streamline reporting, improve accuracy, and monitor timelines, reducing delays and errors with data-driven insights.
- Translated raw data into actionable insights to enhance engineering workflows and optimize project efficiency.
- Analyzed schematic data to integrate and synchronize multidisciplinary design systems, ensuring consistency and collaboration across teams.
- Migrated and standardized complex models to improve processes, ensuring compatibility and usability for diverse mechanical design projects.
- Leveraged OCR and ETQ tools to monitor projects, ensure compliance, and improve data quality aligned with industry standards.
- Collaborated with multiple teams to forecast long-lead materials, reducing supply chain bottlenecks and enhancing project delivery timelines.
- Performed comprehensive quality assurance checks on mechanical designs to maintain accuracy, compliance, and consistency with engineering standards.
- Automated repetitive design data tasks using advanced tools, improving team productivity and operational efficiency.
- Created detailed training materials and facilitated workshops to onboard new design team members, improving technical proficiency and knowledge sharing.
- Facilitated team meetings to analyze design progress, address technical challenges, and implement workflow improvements for ongoing projects.

Dev Ops Intern | Oeson – Remote 01/2025 – Present

- Designed and optimized database structures and automated data pipelines to streamline data ingestion, cleaning, and transformation, improving system efficiency and scalability.
- Analyzed and restructured system architecture to address inefficiencies, ensuring seamless integration with existing applications and enhancing usability.
- Utilized tools like Docker and Git for environment setup, version control, and deployment, while performing rigorous testing to ensure system reliability.
- Documented workflows and presented redesign solutions to stakeholders, effectively communicating project value and securing implementation approval.

- Designed and optimized database structures and automated data pipelines to streamline data ingestion, cleaning, and transformation, improving system efficiency and scalability.
- Analyzed and restructured system architecture to address inefficiencies, ensuring seamless integration with existing applications and enhancing usability.
- Utilized tools like Docker and Git for environment setup, version control, and deployment, while performing rigorous testing to ensure system reliability.
- Documented workflows and presented redesign solutions to stakeholders, effectively communicating project value and securing implementation approval.

Projects

Virtual Escape Room Analytics

Dec 2024

GitHub: <https://github.com/YSayaovong/virtual-escape-room>

- **Objective:** Designed and analyzed a virtual escape room dataset to explore user behaviors, completion trends, and bottlenecks.
- **Skills Utilized:** Python (Pandas, NumPy, Matplotlib, Seaborn), data cleaning, exploratory data analysis (EDA), and data visualization.
- **Key Contributions:**
 - Cleaned and prepared dataset by managing missing and inconsistent data entries.
 - Analyzed player engagement, completion rates, and drop-off points to identify patterns and improve room design.
 - Created visual dashboards to display insights on player performance, time management, and success rates.
 - Proposed actionable recommendations to optimize user experience and engagement based on data insights.
- **Outcome:** Enhanced analytical and problem-solving skills while demonstrating proficiency in using data to support strategic decision-making for an interactive project.

Titanic Dataset Analysis

Nov 2024

GitHub: <https://github.com/YSayaovong/Titanic-Dataset-Analysis>

- **Objective:** Conducted comprehensive data analysis to uncover survival patterns and insights from the Titanic dataset.
- **Skills Utilized:** Python (Pandas, NumPy, Matplotlib, Seaborn), data cleaning, exploratory data analysis (EDA), statistical analysis, and data visualization.
- **Key Contributions:**
 - Cleaned and preprocessed raw dataset by handling missing values and normalizing data for analysis.
 - Conducted feature engineering to identify key survival predictors, including age, gender, class, and family size.
 - Created interactive visualizations and charts to highlight survival trends and correlations.
 - Delivered a comprehensive analysis report, providing actionable insights with clear visual representation.
- **Outcome:** Gained proficiency in data manipulation, visualization, and analytical storytelling while showcasing technical skills in Python and data analysis tools.

References

Max Lindhorst | Mechanical Designer, Prolec-GE Waukesha

Salathit Vang | Pastor Hmong First Baptist Church

Ann Schleicher | Supervisor, DD Sling & Supply

Phone: 414-350-3985

Phone: 414-933-8479

Phone: 262-242-5501