

Yengkong Sayaovong

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Education

B.S., in Information Technology, minor in music Arizona State University	Jan 2022 - Present
Zero To Master Data Science Career Path	Oct 2024 - Present
A.S., in Mechanical Design Technology Milwaukee Area Technical College	Sept 2017 - Apr 2021

Certifications

Google Data Analytics Google	Jan 2025
DataCamp Associate Data Engineer in SQL	Jan 2025
DataCamp Data Analyst in Python	Jan 2025
Google IT Automation with Python Google	Oct 2024

Technical Proficiencies

Data Engineering Tools: SQL, Python (Pandas, NumPy, Matplotlib, Seaborn), ETL Pipelines, Data Pipelines Design

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

System Design & Optimization: Database Schema Design

Technical Tools: OCR, ETQ Analysis Tools, TensorFlow

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 design guidelines and 100% on time approvals.
- 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

- Implemented CI/CD pipelines using tools like Jenkins and Docker, reducing deployment times by 35%.
- Optimized cloud resources on platforms such as AWS, leading to a 20% reduction in operational costs.

- Developed real-time monitoring tools, resulting in a 40% decrease in system downtime and faster issue resolution times.
- Worked closely with development and operations teams to deploy over 50 microservices, enhancing overall system reliability.

Data Engineer Intern | Refonte Infini – Remote

11/2024 – 01/2025

- Collaborated in designing and implementing data warehousing solutions, developing and maintaining ETL processes to ensure efficient data flow.
- Assisted in building and maintaining data pipelines for real-time and batch processing, contributing to data modeling efforts for optimized database structures.
- Explored and utilized big data technologies such as Hadoop and Spark for scalable data processing.
- Created visually appealing data visualizations to communicate insights effectively.

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

Phone: 414-350-3985

Salathit Vang | Pastor Hmong First Baptist Church

Phone: 414-933-8479

Ann Schleicher | Supervisor, DD Sling & Supply

Phone: 262-242-5501