# **Yengkong Vang Sayaovong**

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Data Engineer with hands-on experience from a previous internship, specializing in Python, SQL, and data visualization. Skilled in analyzing complex datasets, automating data workflows, and generating actionable insights to support business decision-making. Proficient in data warehousing, ETL processes, and creating interactive dashboards that drive strategic growth. Actively seeking a machine learning or data engineer position to utilize my analytical skills and contribute to meaningful data-driven solutions.

**Career Highlights** 

#### **Data Engineer Intern** | Refonte Infini – Remote

11/2024 - Present

- Implemented data ingestion with tools such as Sqoop, Flume, and Kafka.
- Optimized Hive queries using partitioning, bucketing, and indexing.
- Processed large datasets and real-time data using Apache Spark.
- Managed AWS services like RDS and EBS for secure and scalable solutions.
- Applied AWS deployment options tailored to business needs.
- Processed data on Amazon EMR using Hadoop tools.
- Built real-time data solutions with Amazon Kinesis and visualized data using QuickSight.
- Deployed Azure virtual machines, web apps, and databases.
- Integrated Azure Active Directory for secure identity management.
- Designed data solutions with Azure Synapse, Data Lake, and SQL Database.
- Developed batch and streaming data processes for performance optimization.

#### Mechanical Designer | Prolec-GE Waukesha – Waukesha, WI

10/2020 - Present

- Designed transformers and nameplates, ensuring compliance with industry standards using CREO 8.0.
- Led process optimization initiatives, reducing errors and improving design efficiency by 10%.
- Mentored 6 detailers, providing guidance to improve overall team performance.
- Worked cross-functionally to ensure timely and high-quality project delivery.
- Facilitated production and training sessions to enhance team knowledge and ensure efficient operational workflows.

#### **Volunteer Experience**

Board of Trustees Member | Hmong First Baptist Church | Milwaukee, WI

12/2023 – Present

Participated in decision-making processes and maintained records for board meetings.

Pianist | Hmong First Baptist Church | Milwaukee, WI

1/2023 – Present

Organized musical arrangements and collaborated with worship teams for weekly services.

Assistant Treasurer | Hmong First Baptist Church | Milwaukee, WI

11/2018 - 12/2021

Managed financial records, budgeting, and payroll to ensure compliance with financial regulations.

Education

B.S., Information Technology; Minor in Music | Arizona State University, Expected Completion: 5/2025

A.I. & Machine Learning Engineer Career Path | Zero to Mastery, Expected Completion: 5/2025

**A.S. in Mechanical Design Technology |** Milwaukee Area Technical College, 5/2021

## **Technical Proficiencies** Python (Advanced): Skilled in object-oriented programming (OOP), data structures, Languages: algorithms, backend development (Flask, Django), and process automation. JavaScript (ES6+): Used in backend services, asynchronous operations, and eventdriven architecture. C++ (Basic), C# (Basic), Java (Basic): Basic knowledge of syntax, programming logic, and foundational concepts. **Machine Learning & Data** Scikit-learn, Pandas: Skilled in building, training, and fine-tuning machine learning Science: models with scikit-learn, and proficient in Pandas for efficient data manipulation and preparation, enabling effective feature engineering and model performance. Feature Engineering & EDA: Strong ability to identify and create meaningful features, coupled with deep experience in exploratory data analysis to uncover patterns, trends, and insights from complex datasets. **NLP:** Hands-on experience with natural language processing, including text preprocessing and sentiment analysis, to derive insights from unstructured data sources.

**Data Engineering:** 

Cloud & DevOps:

Apache Kafka, Spark, Hadoop: Proficient in developing scalable, high-performance data pipelines with Kafka and Spark, and leveraging Hadoop for distributed processing of large datasets, enabling real-time and batch data ingestion.

ETL Pipelines & Data Warehousing: Experienced in constructing end-to-end ETL pipelines that ensure data quality and accessibility, and skilled in designing data warehouses that support comprehensive business intelligence

AWS Services: Experienced with EC2, S3, Lambda for scalable infrastructure,

production deployment, and serverless computing.

CI/CD & Containers: Proficient in Docker, Jenkins, and GitHub Actions for automated builds, testing, and deployments.

Azure Synapse: Proficient in using Azure Synapse for unified analytics, integrating large-scale data solutions that support efficient data exploration, management, and analysis.

**Database** PostgreSQL, SQL, NoSQL (MongoDB, Couchbase): Proficient in writing complex

queries, managing relational and NoSQL databases, and executing ETL processes for data operations. Skilled in optimizing data storage and retrieval strategies to support

large-scale data workflows.

**Tools:** PostgreSQL, SQL, Apache Kafka, Hadoop, Spark, Redshift, Snowflake: Proficient in

leveraging these tools to build, manage, and optimize data pipelines, ensuring high

performance and reliability in data engineering environments.

#### **Projects**

### **Predictive Analysis and Data Insights on the Titanic Dataset**

November 2024

**Description:** Conducted a comprehensive analysis of the Titanic dataset to uncover factors influencing passenger survival and developed a predictive model to estimate outcomes.

- Data Preprocessing: Addressed missing values, removed irrelevant columns, and prepared the dataset for analysis.
- Exploratory Data Analysis (EDA): Utilized Python libraries (Seaborn, Matplotlib) to visualize survival trends across variables such as class and age.
- Feature Engineering: Selected and prepared key features for optimal model training.
- Machine Learning Model: Developed a RandomForestClassifier in scikit-learn, evaluating performance with metrics including confusion matrix and classification report.

Key Skills: Python, Data Analysis, Machine Learning, Data Visualization, EDA, scikit-learn, pandas, Seaborn, Matplotlib.