

Kaung Si Thu

Data Engineer



1989-05-11



Myanmar, English



Yangon, Myanmar



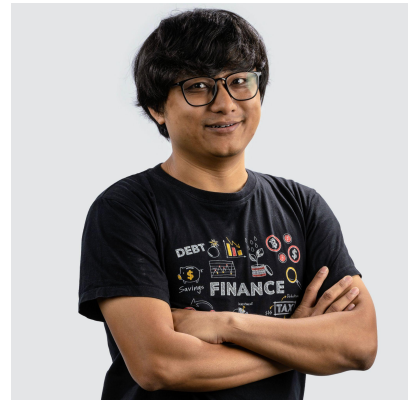
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Career Summary

Data engineer with a strong background in data lake, data warehouse development and in software development. Proficient in a variety of data engineering methodologies, programming languages and tools, including SQL, Python, C#, Azure and AWS cloud data platform technologies. With over a decade of career in Manufacturing, Fintech and Banking industries, experienced in designing, building, and maintaining data pipelines, lakes, warehouse, marts and orchestration, as well as working on automation projects in the manufacturing industry. Seeking a challenging and rewarding data engineering role where I could use technology to positively impact people's lives.

Professional Experience

Feb 2023 - Present

(6 months)

Lead Data Engineer

Kanbawza Bank, Yangon, Myanmar

Manage a data engineering team that works closely with Data Scientist and Analytic Team to implement a organization-wise data platform on both on-premise and cloud which will bring together the data from banking, fintech, E-commerce, Online Medical Service businesses enabling data-driven business decision makings, customer 360 analysis and self-service analytics for business teams.

Key Responsibilities

- Work hand-in-hand with Data architect, Scientist and Analytic Team on business requirements to implement a unified data platform on both on-premise and cloud.
- Implement best practices and development standards for data engineering team
- Mentor data engineers on developing ETL and ELT pipelines, methodologies mainly on Microsoft SSIS, SQL Server, Glue and Redshift
- Evalulate products and services for data platform implementation and optimizing existing designs and models

Key Projects

- Migrated an out-sourced data warehouses to be part of the centralised data platform on on-premise
- Implement cloud data platform on AWS as continuous capabilities improvement of on-premise data platform

Nov 2020 - Feb 2023

(2 years 3 months)

Manager, Data Engineering

Digital Money Myanmar (Wave Money), Yangon, Myanmar

Work closely with Data Architect, Data Engineers and Data Analysts to develop and maintain on-prem and cloud data lake, warehouses, marts which support organization-wise reporting solutions and self-service data analysis.

Key Responsibilities

- Develop ETL and ELT pipelines using SSIS, on Azure Synapse, and ADF
- Integration process monitoring, alerts and orchestrations
- Tuning, backup and redundancy management
- Support Analysts on ad-hoc data imports and exports
- Automate, orchestrate data pipelines, notifications and reverse ETLs

Key Projects

- Implement data pipelines and aggregation procedures to integrate each layers of an on-prem data warehouse to support enterprise reporting solution using MS SQL Server, SSIS, SSRS, T-SQL, Powershell and Power Automate
- Setup Azure cloud platform to migrate on-prem data warehouse to cloud data lake using Azure Data Lake, Data Factory, Synapse and Mapping Data Flows

Jan 2017 - Jun 2020
(3 years 6 months)

System Engineer
Emerson Automation Solutions, Singapore

Worked closely with various functional teams to identify, plan and implement reporting, automation and web-app projects towards the improvement of business processes and productivity as well as cost saving.

Key Responsibilities

- Extract, analyze and prepare reports from the data of ERP and in-house apps for day-to-day data-driven decisions and identifying improvement areas.
- Work with vendors to evaluate new technologies and solutions for potential projects
- Develop and maintain internal software applications
- Support project engineers on RFID, AGV and facial recognition technologies

Key Projects

- *Warehouse Inventory Management:* to provide end users with almost real-time visual reports of inventory situation in a warehouse by using data collected from RFID scanning and manufacturing systems. (SSRS, PowerBI, T-SQL, C#, RFID)
- *Material Movement Automation:* Integrated an Automated Guided Vehicle (AGV) system with IIoT-enabled rain sensors, doors and machine vision systems to automatically transport products from one building to another while providing a real-time web interface dashboard for monitoring. (Asp.net, C#, Javascript)

Jun 2011 - Dec 2016
(5 years 7 months)

Engineering Assistant
Emerson Automation Solutions, Singapore

Key Responsibilities

- Maintain SQL Server Data Transformation Services (DTS) packages
- Prepare excel reports.
- Maintain databases, servers, network infrastructure, industrial PCs and accessories
- Maintain, and develop internal apps in vb6, Asp.Net and C#

Key Projects

- Cycle-time report: Modernise the preparation process of a monthly excel report providing turnaround times for each manufacturing process from order entry to shipping. The data crunching was converted to T-SQL procedures from the initial process of running a series of vb6 programs after extracting data from IBM DB2 using SQL Server DTS packages.

Education

Aug 2012 - Jul 2016

Bachelor of Technology (Electronic Engineering)
National University of Singapore

- Graduated with Honors
- Dissertation Project: WhatsappAnnon - A system for WhatsApp users to send anonymous messages to each other using a proxy phone number.

Apr 2008 - May 2011

Diploma in Electrical and Electronic Engineering
Singapore Polytechnic

- Graduated with Merit
- Final Year Project: Wireless e-Care Monitoring System - Blood Pressure and SPO2 Monitoring and fall-detection system using Zigbee wireless protocol. One of the 2011 Highlighted Projects.

Skills

Data Engineering	: SQL, SSIS, SSRS, Azure Data Factory, Azure Synapse, AWS Glue, Data Lake, Data Warehouse, Power Automate
Software & Script	: C#, Python, Javascript, Asp.Net, VB6, VBA, Powershell, Bash
DevOps	: Team Foundation Server, Microsoft DevOps, Git
General	: Teamwork, problem-solving, critical thinking, preserving, adaptable

Accomplishments

Wave Money
- 2022

Role Model of Our Value
“We Speak Our Mind With Confidence”

Emerson Automation Solutions
- 2019

Problem Solving Hero Award
Successful implementation of automation & digital information integration

Emerson Automation Solutions
- 2016

Rosemount Problem Solving Hero Award
Automated the multi-scan process to a single scan, reducing work order closing transaction time from 25 seconds to 1 second

Emerson Automation Solutions
- 2016

Rosemount Problem Solving Hero Award
Eliminated 6.5 days of finished goods waiting time in the warehouse and improved productivity by providing 3D packing guide reports.

Emerson Automation Solutions **Problem Solving Hero Award**
- 2015

Successfully implemented a system to eliminate manual communication between customer service and finance teams, reducing finished goods ageing

Recommandation Quotes

"In addition to Industrial 4.0 projects, he has also worked on numerous large and prestigious projects and business intelligence reports."

"He is a highly skilled developer, innovative, motivated, and hardworking person, and we were fortunate to have him as part of our Emerson organization."

Michael Ong

Senior AP Manufacturing System Manager
Emerson Automation Solutions, Singapore

"There's no doubt about great programming skills of him. If I were to describe him in one word, that would be 'Dexterous.' He actively and brilliantly pursues coding in his own time and is passionate about new ideas, new gadgets, and new software. Learning the future trend of technology is also one of his strong points that I admire as a classmate. Though he is skilful and bright, without being proud of it, he showed great affection to fellow classmates and helps them when in need. All in all, he has a grand vision and makes people see through him."

Kyaw Soe Hein

Product Development & Regulatory Compliance
Microsoft