KAUNG SI THU

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SUMMARY

A highly motivated and results-driven data engineer passionate about building scalable, high-impact data solutions. With over a decade of experience, I specialize in designing and optimizing data platforms, pipelines, and analytics systems that drive business value. My expertise spans fintech, banking, and manufacturing automation, where I've solved complex data challenges, improved workflows, and mentored teams to elevate data capabilities. I believe that technology isn't just about efficiency—it's a catalyst for innovation and meaningful change. I thrive in dynamic environments, collaborating across teams to unlock the full potential of data.

Explore more details on my portfolio website — kaungsithu.github.io.

KEY SKILLS

Data Engineering

Platform Architecture, ETL/ELT, Data Warehousing, Data Modeling, Data Pipelines, Orchestration, Automation

Data Analytics

Exploratory Data Analysis (EDA), Data Visualization, Reporting & Dashboarding, Google Looker Studio, Metabase, SSRS

Technologies:

AWS (Glue, Redshift, S3, Lambda), Azure (Data Factory, Synapse), Google BigQuery, dbt, Spark, SSIS, SQL, Python, Shell Scripting

Leadership & Execution:

Strategic Planning, Project Management, Decision-Making
Mentoring & Coaching, Stakeholder Collaboration

Soft Skills:

Problem-solving, Critical Thinking, Continuous Learning, Adaptability, Cross-Functional Communication, Teamwork

EXPERIENCE

KBZ Bank — Myanmar's largest privately-owned bank

Head of Data Engineering (Dec 2023 – Mar 2025)

- Spearheaded strategic enhancements to the bank's data platform, driving adoption and improving data culture across the organization.
- Mentored and upskilled data engineers on ETL/ELT pipeline development, data modeling best practices, and governance frameworks.
- Introduced **dbt (Data Build Tool)** to streamline data modeling, trained the team on best practices, and implemented a **custom data validation and alerting system** for improved data quality monitoring.
- Played a key role in developing and launching **organization-wide AI & Generative AI awareness courses** for employees and leadership, covering AI adoption, security risks, and industry transformation.
- Optimized cloud-based data architectures, improving performance and reducing costs while scaling enterprise analytics capabilities.

Lead Data Engineer (Feb 2023 – Nov 2023)

- Developed a **proof-of-concept on-premise data platform** integrating banking, fintech, and e-commerce data to enable customer 360 analytics.
- Evaluated and piloted cloud data solutions to enhance the bank's **data management and analytics capabilities**.
- Led the migration of a legacy outsourced data warehouse to an **AWS-based centralized data platform**, doubling data coverage while cutting infrastructure costs by nearly **50%**.

- Standardized best practices for data pipeline orchestration using AWS Glue, Redshift, and SQL-based transformations.
- Designed **data marts** for business intelligence teams, enabling self-service analytics and improving reporting efficiency.

Wave Money — Myanmar's first mobile financial services provider

Manager, Data Engineering (Nov 2020 – Feb 2023)
- Re-architected and replaced the **legacy analytics system** with a Microsoft SQL Server-based enterprise reporting platform.
- Developed and expanded **ETL/ELT pipelines** using SSIS, Azure Data Factory, and Azure Synapse Analytics.
- Implemented **data orchestration and alerting systems**, improving pipeline reliability and operational efficiency.
- Designed and optimized **data models** to support near real-time and batch analytics for critical business reporting.

Emerson Automation Solutions Singapore — Industrial automation technology, software and engineering

System Engineer (Jan 2017 – Jun 2020)
- Designed and implemented **RFID-powered inventory tracking**, reducing yearly cycle counts from **3 to 1 day**.
- Automated **material transportation using AGVs**, improving productivity by **~50%** and streamlining logistics.
- Developed and deployed **manufacturing data pipelines**, integrating IIoT, ERP, and database systems for reporting.
- Created **analytics data models** to enhance material movement and storage visibility and decision-making.
- Led **automation and digital transformation projects**, improving operational efficiency across the factory.

Engineering Assistant (Jun 2011 – Dec 2016)
- Maintained, optimized **SQL Server Data Transformation Services (DTS) packages** for manufacturing data flows.
- Developed internal applications to support **process automation and operational reporting**.
- Managed **database administration and infrastructure**, ensuring system stability and performance.

PROFESSIONAL CERTIFICATIONS
- **Google Cloud** — Google Cloud Data Analytics Certificate (2025)
- **dbt Labs** — dbt Fundamentals Certification (2024)
- **LinkedIn Learning** — Implementing a Data Warehouse with SQL Server 2019 (2020)

EDUCATION
- **Bachelor of Technology in Electronic Engineering -** with **Honors** (2012 – 2016)
  - National University of Singapore — Singapore

- **Diploma in Electrical and Electronic Engineering -** with **Merit** (2008 – 2011)
  - Singapore Polytechnic — Singapore

ADDITIONAL EXPERIENCE
Public Speaking & Knowledge Sharing
- Future-Proofing Business: The Critical Role of Data Analytics Systems & Talents (Private Event, 2024)
- Data Analytics Knowledge Sharing (Simbolo IT Training School Guest Speaker, 2024)
- A Data Engineer's Journey (AWS Community Day Myanmar, 2023)

Achievements & Recognitions
- Role Model of Our Value Award (Wave Money, 2022)
- Multiple Problem-Solving Hero Awards (Emerson Automation Solutions, 2015-2019)

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