

YAN QIAN, LIM (AMELIA)

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Data Engineer passionate about turning your data warehouse into a value-driven powerhouse. 2+ years building scalable data pipelines across FinOps and customer data products within regulated SaaS and financial services domains. Adept at enhancing data accessibility and utilisation to drive improved customer experience, enhanced cost transparency and strategic decision making. Core expertise in SQL, Python and cloud-based data solutions (Azure, AWS).

KEY SKILLS

- **Programming:** Python (Pandas DataFrames), Pyspark, SQL, Linux shell script, Java
- **Cloud Platforms:** Azure (Databricks, Data Factory, Kubernetes), AWS (S3)
- **Frameworks:** Apache Spark, Hadoop, Delta Lake
- **CI/CD Automation Tools:** Azure DevOps, GitHub, Autosys
- **Databases:** SQL (MySQL, PostgreSQL), NoSQL (MongoDB)
- **BI/ Analytics:** Microsoft Fabric, Power BI, Alteryx (Server Administration certified)
- **Spoken Languages:** English (Fluent, CEFR B2), Mandarin (Native), Bahasa Melayu (Fluent)

PROFESSIONAL EXPERIENCE

Data Engineer

March 2025 - Present

Sitecore – Kuala Lumpur, MY

- Optimized FinOps analytics pipelines across Azure Databricks and Microsoft Fabric, automating workflows according to Medallion architecture, improving processing efficiency by 20% and providing visibility into cost-to-value ratio of cloud spend relative to usage for multiple vendors (Azure, AWS, Elastic Cloud).
- Reconstructed fragmented Kubernetes billing infrastructure, consolidating 3+ external data sources into a unified data model, enabling accurate internal chargebacks on \$1M+ cloud spend for company's flagship SaaS product and value-based pricing models that maximise product ROI.
- Prototyped an automated data quality monitoring mechanism using Databricks DQX framework, providing near real-time visibility into quality issues, anomalous behaviours and late arriving data impacting ~10% of monthly reports.
- Achieved 100% resolution of security compliance alerts in CI/CD pipelines, implementing access controls with compliance to regulatory standards and maintaining open issues at zero.

Technology Centre Analyst (*Acting Data Engineer Associate*)

June 2023 – February 2025

AIA Singapore – Kuala Lumpur, MY

- Developed 3 end-to-end ETL pipelines for customer facing projects involving real-time ingestion, large-scale processing and data modelling across diverse data sources (structured & unstructured) using PostgreSQL, Databricks, Azure Data Factory and Autosys.
- Developed customer data products by integrating data across key service touchpoints, bridging data warehouse and microservices to enable personalized onboarding experience, contributing to a 96% CSAT and top NPS ranking.
- Led enterprise data governance transformation, migrating from legacy Hive systems to Unity Catalog, ensuring regulatory compliance (PDPA: GDPR-equivalent).
- Managed Alteryx cloud servers for self-service analytics serving sales and finance users, ensuring 99.9% uptime.
- **Key Projects:** Personalized customer onboarding video, Real-time customer survey project and Agent challenge tracker

Technology Consulting Intern

October 2021 – January 2022

Ernst & Young Advisory Services – Kuala Lumpur, MY

- Supported *Smart Metering Microservices* project for a leading Malaysian utilities company, streamlining processes for real-time energy consumption tracking from millions of meter readings daily.
- Enabled mobile app growth to 5.5M users as part of a nationwide smart meter rollout, improving user engagement through real-time energy insights and responsive usage alerts.
- Developed stakeholder presentations and technical roadmaps, shaping future initiatives by defining high-level architectures and scoping complex technical solutions aligned with business objectives.

Project Management Intern

February 2020 – April 2020

Silver Lining Systems – Kuala Lumpur, MY

- Key project management team for a large-scale ERP and Cloud Migration Project for client from Industrial sector, analysing change requests to optimize resource utilization while minimizing operational downtime.

EDUCATION

Bachelor Of Science (Hons) Software Engineering

Oct 2020- Jan 2023

Universiti Tunku Abdul Rahman – Selangor, MY

First-Class Honours (Top 7%, Grade: 3.72/4.00) | Book Prize Award Recipient

Diploma in Science (Major: Computer Science & Computer Mathematics)

May 2018- June 2020

Tunku Abdul Rahman University College – Kuala Lumpur, MY

First-Class Honours (Grade: 3.96/4.00) | Scholarship Recipient

CERTIFICATIONS & PUBLICATIONS

- Certified Alteryx Server Administration and Alteryx Server Implementation
- 2 IEEE & JOIV Publications in Natural Language Processing, focusing on conceptualizing machine learning framework and feature extraction techniques for extracting actionable insights from unstructured data.