YAN QIAN, **LIM (AMELIA)**

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Data Engineer passionate about delivering data for good. 2+ years building scalable data pipelines across FinOps and Insurance domains, with focus on building scalable data pipelines for improving customer experiences and fuelling financial strategies in regulated environments. Core expertise in Spark, SQL and Python and cloud platforms (Azure). Seeking relocation to the UK* to bring this expertise to an environment where data meets innovation, creating data-conscious impact for the organization and the broader community.

KEY SKILLS

- **Programming**: Python, 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
Sitecore – Kuala Lumpur, MY | March 2025 - Present

- Optimized finops analytics pipelines across Azure Databricks and Microsoft Fabric, automating workflows to improve processing efficiency by 20% and provide visibility into cost-to-value ratio of cloud spend relative to usage for multiple vendors (Azure, AWS, Elastic Cloud).
- Reconstructed fragmented Kubernetes billing infrastructure into a unified data model outlining operational usage patterns, consolidating 3+ external data sources to enable accurate internal chargebacks and value-based pricing models to maximise SaaS product ROI.
- Prototyped an automated data quality monitoring mechanism using Databricks DQX framework, defining key metrics to enhance visibility and enable proactive remediation of quality issues 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*)
AIA Singapore – Kuala Lumpur, MY | June 2023 – February 2025

- Developed 3 end-to-end ETL solutions 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.
- Build unified customer data products across touchpoints, connecting data from warehouse to microservices for personalized experiences, 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) and resolving security vulnerabilities through code refactoring and access control implementation.
- 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
Ernst & Young Advisory Services – Kuala Lumpur, MY | October 2021 – January 2022

- Supported *Smart Metering Microservices* project for a leading Malaysian utilities company, streamlining processes for real-time energy consumption tracking, processing millions of meter readings daily with responsive service disruption alerts integrated into customer mobile application.
- Directly contributed to improved smart meter rollout and customer engagement with enhanced visibility over energy usage patterns, leading to improved app adoption rate.
- Developed stakeholder presentations and technical roadmaps for large-scale energy data integration initiatives, which includes enhancing high-level architectures and scoping complex technical solutions to business leadership.

Project Management Intern
Silver Lining Systems – Kuala Lumpur, MY | February 2020 – April 2020

- 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
Universiti Tunku Abdul Rahman – Selangor, MY | Oct 2020- Jan 2023

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

Diploma in Science (Major: Computer Science & Computer Mathematics)
Tunku Abdul Rahman University College – Kuala Lumpur, MY | May 2018- June 2020

- 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.
- *GitHub*

*UK Skilled Worker Visa eligible (for New Entry applicant) | Committed to Q4 2025 relocation.