

# Low Xuanli

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## EDUCATION

### Singapore Management University

*B.Sc. in Information Systems (Magna Cum Laude - High Distinction)*

Aug. 2021 – Dec. 2024

- Emerged as *1st Runner-up* for *DELL Technologies Academy Cloud Native Award* for *outstanding Cloud Solutioning and Execution*.
- Awarded *SAS Institute Scholarship* for strong academic performance and involvement in co-curricular activities.
- *Project YOLO Organizing Committee in Caretalyst* which aims to uplift underprivileged children.
- *Relevant Coursework*: Big Data Architecture, Data Mining and Analysis, Cloud Management and Engineering, Applied Enterprise Analytics, Data Management, Spreadsheet Modelling & Analytics.

## EXPERIENCE

### Data Engineer

Jan. 2025 – Dec. 2025

*Bank of Singapore*

- Implemented data pipelines **using SQL, VBS, and Blue Prism** to streamline extraction and transformation of data from MyHR and Enterprise Big Data Platform (EBP), delivering timely headcount reports to stakeholders.
- Developed and deployed a **Streamlit dashboard** in a collaboration with Data Hub, implementing role-based access controls to PII data and **eliminating 3 hours per month in manual reporting** for department coordinators.
- Partnered with cross-functional teams and OCBC stakeholders to validate HR data migrated from Oracle, ensuring enterprise-wide accuracy and consistency during the rollout of a new HR system.

### Data Analyst Intern

Apr. 2024 – Dec. 2024

*Housing & Development Board*

- Automated the Town Council Management Report (TCMR) process by replacing manual Excel workflows with dynamic **Power BI dashboards, cutting report generation time from 2 hours to 30 minutes**.
- Developed an **ETL pipeline in Python** to extract and process data from PDF and Excel sources for Power BI dashboards to analyse prominent issues requiring closer monitoring based on indicators like estate cleanliness, maintenance, etc.
- Employed **Power Query and DAX** to implement sampling logic for block inspections which **increased operational coverage by 30%** by flagging and including blocks with inspection gaps of 2-5 years.

### Full Stack Software Engineer Intern

May 2023 – Aug. 2023

*MarinaChain*

- Engineered a vessel management feature using **Vue.js, Django REST Framework with PostgreSQL** to streamline operations.
- Enhanced user authentication by migrating from custom login flow to Auth0, increasing maintainability and allowing for a robust password reset mechanism.
- Integrated Stripe API for real-time payment processing with **webhooks**, providing users a seamless checkout experience and **reducing checkout time by 25%**.

## PROJECTS

### iQMA Skills Builder

Aug. 2024 – Dec. 2024

- Built a near real-time clickstream analytics pipeline publishing over **30 events daily** to **RabbitMQ** before analysing user demographics, content challenges, and engagement in Tableau to empower iQMA in making data-driven decisions to refine its application.
- Automated infrastructure life-cycle with **Terraform** to bring up/down AWS data pipeline during development, achieving a cost saving of **\$80 a month**.

### Airline Flight Data Pipeline

Aug. 2024 – Dec. 2024

- Developed an automated data ingestion pipeline by scheduling daily jobs via AWS EventBridge to scrape over **12GB** of Reddit and Skytrax reviews using PRAW and BeautifulSoup respectively and store output in AWS S3 for downstream analysis.
- **Integrated AWS Glue**, queried refined data using Athena and **visualised insights in Tableau** to analyse factors affecting flight delays, airline rankings, and customer satisfaction.

## SKILLS & INTERESTS

**Certifications**: AWS Certified Solutions Architect Associate, Red Hat System Administration I & II, SAS Certified Specialist: Machine Learning Using SAS Viya, Tableau Desktop Specialist Certificate, Microsoft Office Specialist Certificate.

**Software/IT skills**: Python, SAS Viya, R, SQL, Tableau, PowerBI, Java, Docker, AWS, ETL, Linux, Terraform.

**Language Fluency**: Bilingual in English and Mandarin.