





# TERRIS LUA

## CONTACT

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## SKILLS

- Microsoft Excel
- Programming Language ( Python )
- Data Modeling & Database Design
- SQL (Structured Query Language)
- ETL Processes (Extract, Transform, Load)
- Version Control
- Team Collaboration
- C#
- Data Warehousing Technologies
- HTML
- CSS
- Snowflake
- AlibabaCloud

## EDUCATION

**Bachelor of Science in Computer Science**  
SIM Global Education, University of London  
Second Upper Class Honours  
Oct 2020 - Jan 2024

**Diploma in Electrical & Electronic Engineering**  
Singapore Polytechnic  
Mar 2015 - Mar 2018

## LANGUAGES

English  
Chinese

## PROFILE

Passionate Computer Science graduate with a robust foundation in software development and system analysis! Throughout my academic journey, I've excelled in algorithm design, project management, and coding, consistently pushing the envelope of innovation. I bring a fusion of technical expertise, critical thinking, and a passion for problem-solving. Eager to contribute and amplify the technological advancement of any forward-thinking team

## EMPLOYMENT HISTORY

**Junior Data Engineer, Synagie** May, 2022 - Aug, 2023

- Successfully balanced a full-time computer science degree while working full-time as a Junior Data Engineer, demonstrating strong time management and commitment.
- Built ETL pipelines to ingest, clean, and transform data from APIs, databases, and CSV files, saving multiple departments 5-7 hours weekly
- Processed and cleaned 10,000+ survey records, improving data quality for internal reporting
- Identified and resolved data discrepancies across multiple sources, ensuring 99.5 %+ data quality for reporting dashboards and executive use
- Documented data workflows and worked with analysts to align pipeline logic with reporting needs
- Explored Alibaba Cloud Function Compute for event-based Excel ingestion from OSS to databases, reducing manual upload steps

**Intern Customer Service , Samsung** Sep, 2016 - Nov, 2016

- Assisted an average of 30-40 walk-in customers daily, resolving product issues and providing clear explanations to support in-store service experiences
- Maintained a high standard of professionalism during peak hours, helping the team manage high foot traffic efficiently
- Coordinated with technical and sales teams to ensure timely follow-ups, improving turnaround time on customer queries by an estimated 15-20%

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## Independent Experience & Projects

### Digital Marketing Project

Feb 2024 - Jan 2025

- Co-managed a small-scale social media marketing project with a friend to explore content strategy and digital outreach
- Planned campaigns, conducted audience research, and tracked engagement across platforms such as Instagram and TikTok
- Coordinated a remote team of four to handle content design, posting schedules, and performance analysis
- Built practical experience in project planning, communication, and data-driven content optimization
- Concluded the project after reassessing long-term goals, and shifted focus toward data and engineering work

### Technical Projects

#### Social Network Web Application

- Built a Django-based social network app with user registration, login, media uploads, and post interactions
- Applied MVC design pattern and implemented basic CRUD functions with session management
- <https://github.com/TerrisLua/socialnetworkdjango>
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#### 2D Plane Shooting Game

- Developed a vertical 2D plane shooter game using Unity and C#
- Created game mechanics for movement, scoring, shooting, and collision handling
- Demonstrated event-based programming and object-oriented design
- <https://github.com/TerrisLua/2d-planeshooting-game>

#### Crypto ETL Pipeline

- Built an ETL pipeline to ingest real-time cryptocurrency market data using APIs
- Loaded data into PostgreSQL and visualized with Flask + Plotly dashboards
- Created visual insights such as 24h price changes and top 10 crypto assets
- <https://github.com/TerrisLua/crypto-api-etl>

#### Real-Time Event Tracking System

- Designed a Kafka + Flask + PostgreSQL system to log user clicks and page view events
- Implemented a real-time dashboard for user interaction metrics
- <https://github.com/TerrisLua/flask-kafka-integration>

#### SQLite-PostgreSQL Migration Tool

- Wrote a Python script to migrate structured data between database systems
- Handled schema creation, data transformation, and data integrity validation
- <https://github.com/TerrisLua/simple-migration>