

TERRIS LUA

CONTACT

- +65-93879597
- luaterris880@gmail.com
- <https://terrislua.netlify.app/>
- Jurong West Street 52 Block 528
640528

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

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

Bachelor's degree, SIMGE (SIM Global Education) Second Upper Class Honours
Oct, 2020 - Jan, 2024
Bachelor's degree in Computer Science

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 |
| <ul style="list-style-type: none">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 weeklyProcessed and cleaned 10,000+ survey records, improving data quality for internal reportingIdentified and resolved data discrepancies across multiple sources, ensuring 99.5 %+ data quality for reporting dashboards and executive useDocumented data workflows and worked with analysts to align pipeline logic with reporting needsExplored 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 |
| <ul style="list-style-type: none">Assisted an average of 30–40 walk-in customers daily, resolving product issues and providing clear explanations to support in-store service experiencesMaintained a high standard of professionalism during peak hours, helping the team manage high foot traffic efficientlyCoordinated with technical and sales teams to ensure timely follow-ups, improving turnaround time on customer queries by an estimated 15–20% | |

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>