TERRIS LUA

CONTACT

+65-93879597

luaterris880@gmail.com

https://terrislua.netlify.app/

Jurong West Street 52 Block 528
640528

SKILLS

PROGRAMMING & SCRIPTING:

- Python
- SQL (PostgreSQL, MySQL, SQLite)
- C#
- JavaScript, HTML, CSS

DATA ENGINEERING & DATABASES :

- ETL Processes (Extract, Transform, Load)
- Data Modeling
- Data Warehousing (Snowflake, MySQL, PostgreSQL)
- REST APIs
- Alibaba Cloud OSS
- Version Control (Git, GitHub)
- DBT (Data Build Tool)

TOOLS & PLATFORMS:

- Microsoft Excel
- Jira

FAMILIAR WITH (USED IN PERSONAL PROJECTS):

- Flask, Plotly, Kafka, AWS, Docker, PySpark, React, Airflow

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%

Independent Experience

Social Media Marketing Venture   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
- Practiced initiative, collaboration, and long-term planning through hands-on execution

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

Dota 2 ELT Pipeline
- Built an ELT pipeline to extract pro match data from the OpenDota API using Airflow
- Loaded match data into PostgreSQL and transformed it using dbt models
- Automated daily report generation and email delivery with Python
- Used Docker to containerize Airflow and manage dependencies
- https://github.com/TerrisLua/airflow-dota2-pipeline-

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

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