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

- Successfully balanced a full-time computer science degree while working full-time as a Junior Data Engineer, demonstrating strong time management and commitment.
- Collaborated within a dynamic team to design, develop, and maintain scalable data pipelines, ensuring data accuracy and optimal performance.
- Utilized a diverse toolkit of ETL processes, software, and methodologies to transform raw data into actionable insights for business decision-making.
- Streamlined data flow and improved data storage solutions, resulting in enhanced system efficiencies and faster query responses.
- Worked closely with cross-functional teams, providing data support and expertise, leading to more informed strategic initiatives.
- Continually updated technical knowledge and skills, leading to the introduction of innovative data solutions that supported business objectives and growth.
- Identified and resolved data discrepancies across multiple sources, ensuring 99.5%+ data quality for reporting dashboards and executive use

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

- Engaged directly with customers to address inquiries, resolve issues, and provide detailed product knowledge, enhancing the overall brand experience.
- Supported the customer service team in managing high call and email volumes, consistently maintaining Samsung's standards of excellence and responsiveness.
- Collaborated with the technical and sales teams to ensure seamless communication and timely solutions to customer-related challenges.

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