

Vincent Lau

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PROFESSIONAL EXPERTISE

SQL | Python | Spark | Azure Suite | ETL | Data Modeling | Data Analytics

WORKING EXPERIENCE

Glocal Foundation, Inc

Sr. Data Engineer, Analytics

Vancouver, CA

May 2024 – Present

- Design and build reliable data artifacts to support business overviews of volunteering networks.
- Enable end-to-end trending and monitoring of network health data through streaming with Azure cloud.
- Streamline data processing via Airflow pipelines with Spark to handle PB-level datasets.
- Increase data accuracy by 85% through the creation of data quality operators in data processing.
- Improve pipeline efficiencies on compute cost and landing time by Spark optimizations.
- Establish anomaly detection framework, reducing cycle-time of root cause analysis of data issue.
- Host mentoring circle to help development of junior ICs both technically and professionally.

Defend Technology, Inc

Data Engineer II

Vancouver, CA

2023 – 2024

- Lead data modelling and data artifacts development collaborating with data scientists and engineering.
- Drive and implement measurement framework of pipeline performance and warehouse data quality.
- Achieve 16% improvement of datasets landing time by continuous integration of GCP Dataflow.
- Mentor junior engineers on best practices of SQL optimization and pipeline efficiencies.

Rainer Technology, Inc

Data Engineer I

Beijing, China

2019 – 2023

- Optimize data transformation and ingestion flow via stored procedures development in DB2.
- Automate data loading and reporting processes through Shell scripts resulting in 1 FTE saving.
- Enhance scalability and reduce maintenance costs by designing new data models in Azure cloud.

Huaxia Diantong, Inc

Business Intelligence Engineer

Beijing, China

2019

- Conceptualize measurement framework and maintain dashboards of key metrics on business health.
- Established MySQL data warehouses ensuring data consistency and reliability.
- Improved backfilling capabilities of datasets through extensible store procedure development.

EDUCATION

University of Nottingham

M.S. in Artificial Intelligence

Nottingham, UK

Jul 2021 - Dec 2022

Guangxi Normal University

B.S. in Computer Science

Guilin, China

Sep 2016 - Jul 2020