

Vincent Lau

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PROFESSIONAL EXPERTISE

SQL | Python | Spark | GCP Suite | ETL | Data Modelling | Data Analytics

EDUCATION

University of Nottingham

M.S. in Artificial Intelligence

- Graduated with Merit

Nottingham, UK

Jul 2021 - Dec 2022

Guangxi Normal University

B.S. in Computer Science

- GPA: 3.53/4.0

Guilin, China

Sep 2016 - Jul 2020

PROFESSIONAL EXPERIENCE

Glocal Foundation, Inc

Data Engineer, Analytics II

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 **GCP**.
- 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.

Defend Technology, Inc

Data Engineer, Analytics 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 **Google Cloud Dataflow**.

Rainer Technology, Inc

Data Engineer, Analytics I

Beijing, China

2020 – 2022

- 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 **GCP**.

CERTIFICATION

- Advanced SQL Developer Certificate
- Tableau Desktop Specialist
- Google Cloud Certified Associate Cloud Engineer
- LinkedIn Python Object-Oriented Programming