

Work Experience

ExpressVPN

Senior Data Engineer

Singapore
2022 - present

- Implement open-source dbt (data build tool) as the data transformation solution replacing parts of the original data pipelines written in Airflow dags
- Deploy a one-stop data platform website housing the metadata of all our data assets, catering the data discovery needs across the entire company

Ninja Van Logistics

Regional Analytics Engineering Manager

Singapore
2020 - 2022

- Built a web app using Python and Flask which become the performance management platform of the company
- Manage and maintain the company primary data visualization platform which is an instance of Metabase
- Analyze and optimize Presto SQL queries to avoid incurring unnecessary cloud computing costs
- Write and document reusable data models and maintain them as the single source of truth

Regional Senior Data Analyst / Data Engineer

2018 - 2020

- Created and maintained data ETL pipelines for the company data warehouse and automated tasks with Airflow
- Migrated data processes onto big data infrastructure on Google Cloud Platform
- Programmed in Spark and Hive to source data and populate data lake in parquet format
- Enabled near real time data by leveraging on Kafka and Spark Structured Streaming
- Managed and promoted the use of Presto as our new scalable OLAP data warehouse
- Performed data analysis and presented findings on data visualization tools such as Periscope and Metabase

Lazada Group (Alibaba Group)

Business Intelligence Senior Analyst

Kuala Lumpur, Malaysia
2016 - 2018

- Participated in developing the real-time tracking website for Lazada's logistics arm by building and deploying a MySQL database in AWS. Subsequently consulted on its roll-out to other Lazada ventures all across Southeast Asia
- Built, hosted and maintained a small database on a local machine to store package data and compute delivery costs based on fulfillment type which aided cost accrual and billing processes required by the finance department
- Consolidated the data flow for the merchant billing process from multiple Alteryx workflows and manual mapping files into a single SQL script, reducing calculation time by 88% to half an hour with improved accuracy, reducing error-related reimbursements
- Deployed and administered a Django SQL Explorer tool internally in which colleagues across departments can run and extracted data independently

PricewaterhouseCoopers (PwC)

Forensic Technology Associate, Consulting Services

Kuala Lumpur, Malaysia
2014 - 2015

- ETL client data into a secure in-house MySQL server to perform tests and analysis with the goals of detecting and investigating signs of fraudulent activities within the client's operations
- Utilized VBA to automate manual and repetitive tasks such as standardizing report formatting in Microsoft Excel with the added benefit of eliminating manual input errors and significantly reducing man-hours required
- Built interactive dashboards using Tableau Desktop to present to the clients with our findings which often are new information that was only discovered by leveraging on data analytics

Education

University of Washington

B.S. Mechanical Engineering, Minor in Mathematics

Seattle, Washington, USA
2010 - 2014

- Fully funded Scholarship, 8 times Quarterly Dean's List, 2 times Annual Dean's List
- Malaysian Student Association, UW Husky Badminton Club, Tzu Chi Foundation

Jit Sin High School

Malaysian Certificate of Education (SPM): Straight A1s, 99th percentile equivalent

Bukit Mertajam, Penang, Malaysia
2004 - 2008

- Royal Police Cadets - Vice President (2007-2008), Winner of the 2006 National Cadet Championships

Skills and Interests

Technology Python, SQL, dbt, Terraform, Unix shell, Git, Airflow, Spark, Hive, Presto, AWS, GCP, Metabase, Tableau
Languages English, Chinese, Malay, Cantonese and Hokkien **Interests** Learning, hiking, finance, history etc.