

Chung Kai Liu

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Summary

Business intelligence engineer with 5 years of experience. Experienced in data engineering, analysing, visualizing. Furnish insights, analytics, and business intelligence needed to guide decisions.

Experience

Analytics Analyst (Contract), ConocoPhillips, Feb 2024 - May 2024

Responsibilities

- Provided analytics support for the whole Australia business unit.
- Migrated reports from SAP Business Objects and Spotfire to Power BI.
- Maintained Australia business unit reporting systems.

Achievements

- Migrated 5 reports from SAP Business Objects and Spotfire to Power BI.
- Upgraded Spotfire Server and Spotfire Analyst to the latest versions to solve vulnerability issues.

Business Intelligence Engineer(Full time), Obzervr, Nov 2022 - Feb 2024

Responsibilities

- Build analytics architecture including database design and data pipeline.
- Build reports, dashboards and apps using Microsoft Power BI Premium.
- Control and monitor daily operation of Azure Synapse pipeline, Power BI dataflow and dataset.
- Optimise the performance of SQL query, dataflow and dataset.
- Provided technical support for customers with data analytics issues or change requests.

Achievements

- Scaled down Power BI Premium capacity from A4 to A3 which helped analytics team save \$4500 a month for the infrastructure cost.
- Optimised a data pipeline so the time complexity of the query became O(1).
- Improved SQL view performance so the query time dropped down from 5 minutes to 1 minutes for the same data size.

Senior Data Analyst (Contract), Brisbane City Council, April 2022 - Nov 2022

Responsibilities

- Extracted data from multiple data sources, transformed and loaded it into data model using Power Query.
- Collaborated with report users to identify what kind of reports they need and whether the current data model can meet their goals.
- Discussed dashboard design with users to get feedbacks in order to modify the format.
- Visualised data insights by building Power BI dashboards according to data user's needs and kept those dashboards updated whilst data source keep growing.

- Rebuilt data model when the structure or site of data source is changed.

Achievements

- Design a new data schema for a new project, built a multi-pages dashboard and published it to online workspace.
- Rebuilt the data structure for 10+ dashboards in order to accomodate the change of data structure.
- Add more visualisations on 10+ dashboards in order to help people know more insights about the data.

Data Analyst (Full-time), Sinopac Securities, April 2019 - October 2021

Responsibilities

- Gathered, cleaned and stored financial statements data using VBA, Python and MS SQL Server.
- Analysed financial statements data by performing exploratory data analysis based on statistic methods in order to give insights in investment management.
- Visualised data insights by building reports in different kinds of formats including Power BI Dashboard, webpage, spreadsheet, powerpoint.
- Automated daily reports producing process in order to save time for team members.
- Designed database schemas for storage of stock market data for existing and new datasets.

Achievements

- One of our data-driven products won the best api project of 2021 The Asset Triple A Digital Awards.
- Created 10+ visually impactful dashboards in Excel and Power BI for data reporting.
- Automated 20+ reporting processes including routine reports and on demand ones.

Skills

Data Science: Data Cleansing, Data Engineering, Data Visualisation

Microsoft ecosystem: Power BI, Azure Cloud, Synapse, Office365

Advanced Excel: Macro and VBA, VLOOKUP, Index match, Pivot table, Data simulations

Database management: MS SQL, MySQL

Language: Python, SQL, bash, HTML, CSS, Javascript

Machine Learning: Scikit-Learn, Surprise, Natural Language Processing

Others: Git, Agile Development

Soft skills: Attention to detail, Excellent Communication, Creative, High Quality, Consistent

Education

Master of Business Administration, National Taiwan University, Sep 2014 - Jun 2016

Relevant courses: Big Data Analytics, Statistics, Economics, Business Analytics

Bachelor of Physics, National Sun Yat-Sen University, Sep 2007 - Jun 2011

Relevant courses: Mathematics, Calculus