Jack Chua

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Education

Virginia Tech, College of Science — Blacksburg, VA

Bachelor of Arts in Economics and Data Science, Minor in Statistics — *Aug. 2021 – Aug. 2024*

- Relevant Coursework: Methods of Regression Analysis, Data Analytics & Visualization, Big Data Economics, Forecasting, R Programming in Econ, Econometric Methods, Statistical Inferences in Econ, Environmental Econ

Work Experience

Ernst & Young — Kuala Lumpur, Malaysia

Technology Consulting Intern - Data & Analytics — *Sep. 2022 – Nov. 2022*

- Assigned Project: power & utilities dashboard deployment for Advanced Metering Infrastructure (AMI) system.
- Developed interactive map visualizations on Microsoft Power BI dashboards to depict the distributions of all running meter production units while ensuring dashboard widgets are accurately populated.
- Utilized Python to condense business reports of different KPI metrics for client's running meter productions.
- Successfully validated the accuracy of over 20 million data rows post-dashboard deployment using SQL queries.
- Aided in fine tuning a data warehouse system through maintenance of over 160 data pipelines on Azure Data Factory.

Ernst & Young — Kuala Lumpur, Malaysia

Technology Consulting Intern - Technology Solutions Delivery — *June 2022 – Aug. 2022*

- Assigned Project: public finance data strategy and governance implementation project.
- Co-led a data quality pilot to streamline the client's ETL workflow and creations and maintenance of data marts.
- Designed and implemented a data mapping process with python, data cleaning process with Talend, and SQL SSIS scripts that reduced data processing time by 60% while achieving 100% accuracy post-transformation.
- Assisted in the assessment of client's data management system using CMMI's Data Management Maturity Model.
- Researched on the application of different emerging technologies in the financial service industry.

Research Projects

Random Forest Variable Selection in Energy and Supply Chain Economics | *Link*

- A python project that implements Random Forest algorithm to integrate a variety of alternative data such as energy consumption and supply-chain scores of different economies. The project also showcases how the algorithm works and assist in selecting significant features for the purpose of better economic forecasting.

Global Organized Crime Index Dashboard | *Link*

- A tableau dashboard that is consist of dynamic visualizations that regionally depicts metric-based scores for different kinds of organized crimes and their resilience and preparedness for it. The dashboard also implements a k-means algorithm to better visualize the relationship between countries' resilience to their GDP per Capita.

Technical Skills

Python, SQL, R, Stata, Talend, MS Power BI, MS Azure, Tableau, Minitab, Advanced Excel, Powerpoint

Extracurricular

The Big Event at Virginia Tech — Blacksburg, VA

Team Volunteer — *Apr. 2023 - Apr. 2024*

Relay for Life at Virginia Tech — Blacksburg, VA

Fundraiser for Virginia Tech Transfer Living Learning Community — *Jan. 2022 - Apr. 2022*

Tae Kwon Do Club at Virginia Tech — Blacksburg, VA

Member — *Aug. 2021 - Aug. 2024*