Jack Chua

571-531-0906 | chjack21@vt.edu | linkedin.com/in/chjack/ | jackschua.github.io/

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*

- Project Engagement: power & utilities dashboard deployment for Advanced Metering Infrastructure (AMI).
- Developed interactive and dynamic Microsoft Power BI dashboards to depict the distributions of running meter production units nationwide while ensuring dashboard widgets are accurately populated.
- Utilized Python to generate 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.
- Supported the optimization of a data warehouse by maintaining over 160 data pipelines on Azure Data Factory.

Ernst & Young   Kuala Lumpur, Malaysia
Technology Consulting Intern - Technology Solutions Delivery   *June 2022 – Aug. 2022*

- Project Engagement: data strategy and governance implementation for public finance transactions.
- Co-led a data quality pilot that successfully improvised client's overall ETL's workflow by utilizing Talend for data cleaning, Python and SQL for data transformation, and latex for data profiling and mapping procedures.
- Designed and implemented multiple SQL SSIS data transformation scripts to facilitate the creation of data marts that achieved 100% accuracy post-transformation and reduced client's ETL data processing steps by 60%.
- Assisted in the assessment of client's data management system using CMMI Institute's Data Management Maturity Model (DMM) and market research to evaluate its competitive standings to industry standards.
- Conducted market research on the application of different emerging technologies in the financial services industry.

RESEARCH PROJECTS

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

- A python project that implements Random Forest algorithm to integrate data from the International Energy Agency and World Bank 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 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*