YANG (KEN) WU

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EXPERIENCE

Data Engineering Intern
Citizen Data

📅 October 2021 - Present   📍 D.C., USA

- Developed and modularized data cleaning and database automation scripts in Python (More details www.kenwuyang.com).
- Created topline and crosstab automation R scripts for reporting purposes and scalable and reusable Rmarkdown report templates.
- Interacted with database hosted on Amazon Redshift (PostgreSQL) for ad hoc request.
- Produced visualizations in R for reports (More details www.kenwuyang.com).
- Worked with the chief data scientist on Citizen's Democracy Reformers Model, a non-parametric look-alike algorithm that uses characteristics of democracy reforms supporters to predict which other voters are also likely to support similar democracy reforms.

Anti-Racial Profiling Project Intern
Asian Americans Advancing Justice | AAJC

📅 July 2021 - October 2021   📍 D.C., USA

- Worked with a team of data scientists on building a relational database (MySQL) on cases related to the profiling and prosecution of Asian American researchers and scientists.
- Created and designed visualizations of case data using Tableau and fact sheets to be used for a report that will be published in near future.
- Responsible for data cleaning, data validating, including support for raw data prepossessing automation and collection tasks.
- Conducted policy research and attended meetings with Congress members as a data specialist.

Intern Analyst
Fusion Fund (Venture Capital)

📅 Summer 2020 (Remote)   📍 California, USA

- Conducted competitor analysis and market sizing analysis on companies in various industries, focusing mainly on cyber security, software enterprise, and healthcare technology. These reports, generated using Rmarkdown, included numerical figures gleaned from various data sources to provide the team with an understanding of how disruptive technology impacts these industries.
- Participated in regular deal sourcing tasks, including conducting company research (via websites like Crunchbase and AngelList), obtaining CEO contact information, and sending out-bound introduction emails using a mail-merge program I developed in R.

Research Analyst
KPMG

📅 Summer 2019   📍 Beijing, China

- Selected Highlight Buy-side/Due Diligence): Initiated the engagement through an out-bound emails using a mail-merge program written in R. Facilitated the due diligence process (e.g., compared the Licensing and Distribution agreement contract that company X had signed with another company with the contract our client planned to sign with company X, ensuring that no unfair provisions were included and no rights were left out), using a regular expression program written in Python.
- Selected Highlight (Strategy advisory): Produced research reports in Rmarkdown for a government agency tasked with promoting foreign investments in China (a single report consists of a target company name, general information, main business(es), data visualizations, and the type of assistance that was needed, etc.) Devised market entry strategies for target companies interested in expanding their operations into the Chinese market.

PERSONAL TRAITS

Conscientiousness   Self-motivated   Quick learner
Honesty and Integrity   Curiosity

LANGUAGE

English   ●●●●●
Chinese   ●●●●●

EDUCATION

B.A. Economics Minor in Statistics
Kenyon College

📅 September 2019 – May 2021

🏆 *cum laude*

Kenyon College Merit List

PERSONAL MOTTO

Life through service.

COURSES

Economics/Finance

- Microeconomics Utility Theory, Redistributive Policy, Consumer Theory, Game Theory, Public Welfare, Taxation and Subsidy etc.
- Macroeconomics GDP, Monetary Theory, Labor Market and Unemployment, Inflation, Growth Theory, etc.
- Money and Financial Markets (The US Banking system, Federal Reserve System, Public Financing, Coupon Bond, Fixed Payment Loan, Money Supply, Risk Structure, Bloomberg Terminal, etc.
- Portfolio Theory Efficient Market Hypothesis, CAPM, Markowitz model, Sharpe Ratio, etc.
- Financial Accounting (Balance sheet, Income statement, and Cash Flow Statement)
- Mathematical Economics (Utility Maximization, Constrained Optimization, Dynamic Analysis, Linear Models, etc.)
- Economics with GIS (Spatial Data, ArcGIS 10.3.x)

Math

- Probability Theory (Discrete and Continuous Distributions, Expectations, etc.)
- Combinatorics (Set Operations, Counting Principle, Boolean Algebra, etc.)
- Calculus (I, II, III)
- Linear Algebra (Matrix Algebra and Operations)

Statistics/Data Analysis

- Probability Distribution Fitting
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- Regression Analysis (Linear and Non-linear, Multiple Regression, Polynomial Regression, Logistic Regression, Poisson Regression, etc.)
- Analysis of Variance (One-way ANOVA, Two-way with interaction effect)
- Econometrics
- Statistical Simulation Risk Analysis in Insurance, Monte Carlo Simulation

SOFTWARE SKILLS

- Bilingual proficiency in R (Rstudio) and Python (VS code)
- SQL (PostgreSQL and MySQL) using TablePlus and MySQL workbench
- Stata for econometric analysis and Microsoft Excel for financial modeling
- Maple and MATLAB for solving mathematical problems
- Tableau for data visualization

SAMPLE WORK

- Interactive Portfolio Dashboard
  https://www.kenwuyang.com/en/post/customizable-portfolio-dashboard/
- Modeling Prostate-Specific Antigen Levels in Cancer Patients
  https://www.kenwuyang.com/en/project/modeling-prostate-specific-antigen-levels/
- Other sample code and projects are also available via my personal website and github repo, which are listed in the headings.