YANG (KEN) WU

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in yangwu1227   🌐 www.kenwuyang.com   ○ YangWu1227

EXPERIENCE

Jr. Data Scientist

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

Data Engineering Intern
Citizen Data

📅 October 2021 - November 2021

- Developing dashboard in R shiny that will be used in *production*.
- Developing a Python package to support data engineering and modeling tasks. (More details www.kenwuyang.com).
- Developed an R package for analysis and creating scalable and reusable Rmarkdown report templates. (More details www.kenwuyang.com)
- Producing query results (Amazon Redshift) for ad hoc request.
- Responsible for creating data visualizations in R & excel for reports (Sample report on www.kenwuyang.com).
- Supporting machine learning and statistical modeling and testing.

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.
- Attended meetings with Congress members as a data specialist to answer questions.

Intern Analyst
Fusion Fund (Venture Capital)

📅 Summer 2020 (Remote)   📍 California, USA

- Conducted data analysis on companies in various industries. These reports, generated using Rmarkdown, included numerical figures and visualizations I produced or 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 (Crunchbase, AngelList, etc.), obtaining CEO contact information, and sending out-bound introduction emails using a mail-merge program I developed in R, which significantly increased out-reach response rate.

Research Analyst
KPMG

📅 Summer 2019   📍 Beijing, China

- Selected Highlight: Initiated the engagement through an out-bound email 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 pattern-matching program written in Python.
- Selected Highlight: Wrote a program that generates research reports in Microsoft word for a government agency tasked with promoting foreign investments in China. The program was also incorporated by KPMG's data team into their toolkit for future use.

PERSONAL TRAITS

Curiosity   Conscientiousness   Self-motivated   Quick learner   Honesty and Integrity   Humility

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

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/Machine Learning

- 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, etc.)
- Tree-based models and classifiers (Decision Tree, Random Forest, Ensemble)
- Support Vector Machine (maximal margin classifier, support vector classifier)
- Econometrics (instrumental variable, basic ARIMA)
- Statistical Simulation (Risk Analysis in Insurance, Monte Carlo Simulation)

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.)

TECHNICAL SKILLS

- Proficiency in R (Rstudio) and Python (VS code) and constantly learning
- SQL (PostgreSQL and MySQL) using TablePlus and MySQL workbench
- Working knowledge of C++
- Working experience using AWS EC2 and S3
- Stata for econometric analysis and Microsoft Excel and JSON for data transporting
- Experience with using Maple and MATLAB for solving mathematical problems
- Working experience with Tableau and DOMO for data visualization BI
- Googling, trouble-shooting, and testing

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/
- Interactive Dashboard for tracking R and Python packages download statistics.
  https://github.com/YangWu1227/tracker_dashboard
- Other sample code and projects are also available via my personal website and public Github repositories, which are listed in the headings.