

YANG (KEN) WU

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EXPERIENCE

Data Engineering Intern

Citizen Data

📅 October 2021 - Present 📍 D.C., USA

- Developed and modularized proprietary data cleaning scripts in Python.
- Created topline and crosstab automation R scripts for reporting purposes and created scalable and reusable Rmarkdown report templates.
- Interacted with database hosted on Amazon Redshift for ad hoc request.
- Produced visualizations in R for reports.
- 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.
- Provided raw data quality control and supported raw data conversion, 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

- 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.
- Conducted competitor analysis and market sizing analysis on companies in various industries, focusing mainly on cyber security, software enterprise, and healthcare technology. These reports included numerical figures gleaned from various sources to provide the team with an understanding of how disruptive technology impacts these industries.

Research Analyst

KPMG

📅 Summer 2019 📍 Beijing, China

- Selected Highlight (Buy-side Advisory): Oversaw the initial "target screening" (a process for picking out potential investment targets for our client, including research, content gathering, and coordinating out-bound emails and calls). Produced screening results as a deliverable to our clients.
- Selected Highlight Buy-side/Due Diligence Initiated the engagement through an out-bound email (our client, Company Y, was interested in an overseas pharmaceutical company X planning its first IPO). Built IPO valuation model for the target company. Facilitated the due diligence process (e.g., we 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).
- Selected Highlight (Strategy advisory): Produced research reports 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), projection figures, 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.

