

# Jun Hwang

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## Education

### University of California, Berkeley

Graduation Date: Dec 2024

B.A. in Data Science (Concentration: Economics)

**Relevant Coursework:** Principles and Techniques of Data Science, Data Engineering, Data Mining and Analytics, Probability for Data Science, Data Structures and Algorithms, Econometrics, Economic Analysis - Micro, Economic Models

## Experience

### Atlassian

May 2024 - Aug 2024

*Incoming Data Science Intern*

*San Francisco, California*

### Quizlet

Aug 2023 - Present

*Data Science Intern*

*San Francisco, California*

- Designed and implemented unified data pipeline and dashboard for all marketing A/B test analytics, reducing the monthly cost of the marketing A/B test process by 75%
- Enhanced Quizlet's statistical testing library by developing methods for multivariate A/B tests in Python, speeding up A/B test process by 15%
- Developed data pipeline model for year-in-review recap email notification updating 20+ millions active users' product usage metrics using BigQuery and Airflow

### Fremont Bank

May 2023 - Aug 2023

*Data Analyst Intern*

*Livermore, California*

- Analyzed historical IT service dataset consisting of 10k+ records by developing an interactive dashboard that outlines major trends using Microsoft Excel and PowerBI
- Proposed data-driven recommendations to reduce annual ticket volumes by 45%
- Enhanced IT support process by 20% by automating ticket categorization utilizing Microsoft Excel VBA

### Callisto

Feb 2023 - May 2023

*Data Science Researcher*

*Berkeley, California*

- Conducted exploratory data analysis on social media datasets using Python pandas, numpy, and plotly for trend visualization
- Developed an interactive dashboard to visualize company's annual growth across various US regions using Microsoft Excel
- Performed a t-test on the campus ambassador program's efficacy to ensure the accuracy of the statistical conclusions

## Projects

### Validating Youtube Category (Python)

Nov 2023 - Dec 2023

- Processed and transformed the dataset containing US Youtube videos' statistics by one-hot encoding, vectorizing and normalizing data using Python pandas and scikit-learn
- Applied K-means clustering and elbow method using scikit-learn to identify whether the optimal number of categories match current number of categories
- Utilized Google Gensim Word2vec model to find which current category pairs yield high similarity scores

### Query Performance (PostgreSQL)

Sep 2023 - Oct 2023

- Examined the effects of views, predicate pushdowns, joins, and index managements on optimization and tuning for SQL Queries using PostgreSQL

### Housing Price Predictor (Python)

Oct 2022 - Nov 2022

- Conducted EDA on a dataset of 500k+ housing records in Cook County, Illinois using Python pandas, numpy, seaborn
- Applied linear regression on feature-engineered data set with one-hot encoding using Python scikit-learn - achieved accuracy of 90%

## Technical Skills

**Languages:** Python, SQL, NoSQL (MongoDB), R, VBA, Java, Html, CSS, LaTeX

**Libraries:** NumPy, Pandas, Scikit-Learn, Matplotlib, Seaborn, PyMongo, Scipy, Plotly, Ggplot2, Dplyr

**Tools:** Google BigQuery, dbt, Airflow, Tableau, Microsoft PowerBI, Git, Microsoft Excel, Jupyter