

Kailei Lin

linkailei919@gmail.com | +1 (323) 351-3716 | Los Angeles, CA | [Linkedin](#) | [Portfolio](#)

EXPERIENCE

Beacon Econoics, LLC

Sep 2021 – Present

Data Analyst

Los Angeles, CA

- Led collaborative efforts with clients on economic consulting projects, delivering impactful tools and reports to communicate qualitative and quantitative econometrics effectively; facilitated a 15% increase in client satisfaction.
- Leveraged **Multiple Regression Model** to identify key factors impacting high-skill worker attrition and provided marketing strategies to target key audiences resulting in a prospective 8% increase in quarterly retention.
- Provided data-driven insights through ad-hoc analyses, presentations, automated reports, and dashboards in **Tableau**.
- Automated and standardized the econometrics building and visualization workflow using **Python** (class, python-pptx).
- Mined open-source data and maintained a high-quality data platform(**S3-PostgreSQL**), reducing IT costs by 30%.

Tusimple, INC(NASDAQ: TSP)

July 2020 – Nov 2020

Product Analyst Intern - Maps

San Diego, CA

- Designed and maintained ETL pipelines and tables that provided insights on +**1M** investment Data.
- Built an automated **Tableau dashboard** consisting of **40** key metrics to capture economic and investment dynamics, providing insights into trends and performance of company investments(VC-backed deals and private equity transactions).
- Collaborated closely with product managers and algorithm team to perform root-cause analysis using **K-Nearest Neighbors** on over **1M false positives** log data gathered through **SQL**, leading to a 15% improvement in accuracy rate.

Selected Projects

Stock Performance & Selection | Python, Time-Series Analysis

Jan 2023 – May 2023

- Constructed a multi-factor stock selection model by leveraging gathered data from Yahoo Finance and optimized the selection strategy using **SVM** and **Logistic Regression**, achieving an AUC of 0.92.
- Evaluated the performance of stratified portfolios generated by the model, conducting rigorous back-testing to compare returns against the market average, outperforming market benchmarks by 15%.

Cloud-based University Search Engine | Python, JavaScript, npm/Node.js, firebase

Jan 2020 – May 2020

- Wrote **ETL** scripts in Python for data scraping and format conversion between JSON and .sql. These scripts led to a remarkable 40% reduction in data processing time.
- Crafted back-end database(**NoSQL**) and implemented **inverted indexing** schema to facilitate real-time data retrieval for the website.
- Built a search engine UI in **jQuery**, allowing viewers to search, filter, and continuously navigate from returned results, resulting in a weekly traffic of 500 visitors and a 20% increase in email subscriptions.

EDUCATION

University of Southern California

Aug 2018 – Dec 2020

Master of Science; Major in Spatial Data Science

Los Angeles, CA

Miami University-Oxford

Aug 2014 – May 2018

Bachelor of Science; Major in Information Systems

Oxford, OH

Technical Skills

Languages&Platforms: Python(OOP,Pandas), SQL(Snowflake,MySQL,AWS), Tableau, R, Hadoop

Statistics&Data Science: Classification, Regression, Time-Series(ARIMA), Hypothesis Testing(t-test, z-test)