

Kailei Lin

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EXPERIENCE

Beacon Econoics, LLC

Sep 2021 – Present

Data Analyst

Los Angeles, CA

- Led ESG Research Project and collaborated with Economists, Stakeholders, data analysts, and the marketing team
 - Compiled a 100-page ESG market report by outsourcing and analyzing descriptive statistics on data. The report received accolades from the UCLA Institute of Environment.
 - Organized weekly stakeholder meetings and developed **Tableau Dashboards** to enable interactive visualization of key project metrics and trends; improved stakeholder engagement and decision-making accuracy by 50%.
- Analyzed profitability and project cost structure by quantifying ROI from expenditures using **input-output model**.
- Spearheaded an in-depth analysis of local economic trends, leveraging the **Multiple Regression** Model to identify key factors impacting high-skill worker **retention**; resulting in a prospective 8% quarterly employment growth.
- Designed AWS **S3-PostgreSQL** data pipelines to standardize and automate the workflows for sustainable data management, analytics, and visualization in different platforms using **Python** (class, python-pptx).
- Facilitated data-driven solutions for the organization by advising and assisting in **cloud migration** to **AWS S3**.

Tusimple, INC(NASDAQ: TSP)

July 2020 – Nov 2020

Product Analyst - Maps

San Diego, CA

- Managed an automated **Tableau dashboard** tracking 40 key performance metrics, revealing real-time trends in competitive markets, including VC-backed deals and private equity transactions.
- Collaborated closely with product managers and algorithm team to perform root-cause analysis 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, MySQL

Jan 2020 – May 2020

- Developed **ETL** scripts to **crawl** data from university websites and stored it in **NoSQL**(Noje.js, Firebase) via **Python**, resulting in a 40% reduction in data processing time and improved data accessibility for analysis and reporting purposes.
- Implemented a **NoSQL** database **schema** for university records with 19 tables categorized by continents and
- Construct 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, PySpark,Pandas), SQL(Snowflake,MySQL), R, Tableau, AWS, Hadoop

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