

# KAI-YIN CHAN

Los Angeles, CA | chankaiy@usc.edu | github.com/carolyntw | linkedin.com/in/kaiyinchan | (213) 618-7101

## EDUCATION

<b>University of Southern California</b>   Los Angeles, CA	Jan 2022-Present
Master of Science in Applied Data Science	
<b>Fu Jen Catholic University</b>   Taipei, Taiwan	Sep 2015-Jun 2019
Bachelor of Arts in Economics (Minor: Statistics and Information Science)	

## WORK EXPERIENCE

<b>Software Engineer Intern, Ark Biotech</b>   Boston, MA	May 2023-Aug 2023
<ul style="list-style-type: none"><li>Delivered a 30% productivity boost, evidenced by reduced redundancies and accelerated workflows, by spearheading the development and maintenance of customized Python packages using GitLab version control</li><li>Elevated user experience and data analytics efficiency, validated by halved page load times, by enriching real-time dashboard visualization and enhancing performance via code refactoring on Streamlit in an Agile environment</li><li>Constructed an automated system to monitor device connections regularly, confirmed by the elimination of manual data extraction, by developing a real-time alarm system using Databricks and TimescaleDB</li><li>Increased data accessibility, demonstrated by improved cross-team collaboration, by creating Databricks notebooks for efficient visualization and analysis of historical time-series data</li></ul>	
<b>System Engineer, NEC Taiwan Ltd.</b>   Taipei, Taiwan	Oct 2020-Apr 2021
<ul style="list-style-type: none"><li>Executed a 97% stakeholder satisfaction rate, verified by feedback following a product launch, by performing SQL analysis to optimize user interactions and streamline features based on data-driven insights</li><li>Boosted project effectiveness by 30%, indicated by improved delivery timelines, by utilizing the principle of Iterative Feedback and Continuous Improvement in project management</li><li>Employed solutions reducing system downtime by 25%, shown by operational availability, by identifying and resolving data discrepancies in remote systems</li></ul>	
<b>Data Science Intern, Taipei Medical University Hospital</b>   Taipei, Taiwan	Jul 2019-Aug 2019
<ul style="list-style-type: none"><li>Optimized data integrity of 300,000+ patient records, marked by accuracy and processing speed, by implementing advanced SQL workflows</li><li>Derived a quantifiable risk metric, reflected in enhanced patient care protocols, by applying statistical tools and analyzing the risk of metabolic syndrome with second-generation antipsychotics</li><li>Refined predictive models, seen in raised accuracy for osteoporosis and metabolic syndrome prediction, by examining cross-tables for applicable discoveries</li></ul>	
<b>Data Analyst Intern, First Securities Inc.</b>   Taipei, Taiwan	Feb 2019-Jun 2019
<ul style="list-style-type: none"><li>Designed a web app enhancing business intelligence, proven by a 15% increase in task completion speed, by leveraging an R Shiny platform with statistical analysis capabilities</li><li>Visualized quarterly client investment patterns in charts and reports, observed through heightened specialist responsiveness to emerging trends, by utilizing the visualization capabilities of Excel and Power BI</li></ul>	

## PROJECTS

<b>Sales &amp; Customer Insights Dashboard</b> (Skills: Python, AWS S3, AWS Glue, AWS Athena, Tableau)	Oct 2023
<ul style="list-style-type: none"><li>Orchestrated an end-to-end data pipeline harnessing AWS services for data transformation and integration with Tableau</li><li>Crafted an interactive Tableau dashboard for e-commerce data analysis, enabling data-driven decision-making</li></ul>	
<b>GreenTrace</b> (Skills: Python, Dash)	Feb 2023
<ul style="list-style-type: none"><li>Generated Dash-based interactive visualizations to analyze global CO2 trends, driving user environmental awareness</li><li>Implemented personalized tools to compute individual carbon footprints, catering to distinct user preferences and behaviors</li></ul>	
<b>College Return on Investment</b> (Skills: Python, Streamlit, Firestore)	Mar 2022
<ul style="list-style-type: none"><li>Formed a Streamlit-powered web application with 4 interfaces for college financial analysis with 90% user satisfaction</li><li>Established a database architecture employing Firestore to store 8 JSON datasets and a collection for user feedback</li></ul>	

## TECHNICAL SKILLS

**Programming Languages:** Python, R, JavaScript  
**Database Technologies:** SQL (MySQL, SQL Server, PostgreSQL, TimescaleDB), NoSQL (MongoDB, Firestore)  
**Cloud And Big Data Platforms:** AWS (EC2, S3, Athena, DynamoDB, Glue), Databricks, Spark, Hadoop  
**Data Visualization:** Plotly, Streamlit, Dash, Tableau, Power BI  
**Other Tools:** Docker, CI/CD, Git

## ACTIVITIES

<i>Mentor, USC Women in Engineering</i>	Feb 2023-Present
<i>Attendee, 2023 AthenaHacks - Hackathon</i>	Feb 2023