Keqing Liu

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EDUCATION

Vanderbilt University — **Nashville, TN**
Master of Science in Data Science — August 2023-May 2025
- GPA: 3.98/4.0
- Teaching Assistant for course Exploratory Data Analysis

Columbia University — **New York City, NY**
Exchange Program in Statistics — September 2021-May 2022
- GPA: 4.0/4.0

Shanghai University of Finance and Economics — **Shanghai, China**
Bachelor of Management in Accounting — September 2019-June 2023
- Vice President of Humanities and Social Sciences Association

SKILLS

- **Relevant Skills**: Statistical Analysis, Data Visualization, Accounting, Project Management, ETL Pipelines, Data Modeling, Data Warehousing
- **Related Platforms**: Power BI, Tableau, Excel, PowerPoint, SQL, Adobe Workshop, Python, R, Google Cloud

EXPERIENCE

Carnival Cruise Line — **Miami, FL**
Data Analyst Intern — May 2024-Present
- Developed a Vessel General Permit **dashboard** to track ballast water discharge, exhaust gas cleaning system washwater sampling, and ship itineraries for 27 Carnival vessels, enabling over 20 stakeholders to monitor adherence to EPA regulations
- **Automated** a data pipeline to extract, transform, and load raw data from multiple sources into a centralized database, refreshing reports and dashboards daily, **saving 300 hours** annually, and achieving nearly **100% data accuracy**
- Established an incident dashboard for presentations to the Chief Marine Officer, identifying key incident types and analyzing **root causes** of frequent occurrences

Asurion — **Nashville, TN**
Data Scientist Intern (Capstone) — Jan 2025-Present
- Analyzed call center client conversation transcripts to enhance agent interface design and **boost upselling rates**
- Conducted **A/B testing** on call center agent interface design changes to optimize performance and **increase revenue**

Nissan Motor Corporation — **Nashville, TN**
Data Scientist Intern — September 2024-Nov 2024
- Created an AI chatbot with personas to assist the marketing department in **predicting** customer needs over the next five years and supporting strategic decision-making

Fathom Public Benefit Corporation — **Nashville, TN**
Data Science Research Assistant Intern — October 2023-April 2024
- Analyzed job market data in the U.S., playing a key role in **securing a contract** with the U.S. Department of Labor

PricewaterhouseCoopers — **Shanghai, China**
Winter Intern, Tax Practice — January 2023-March 2023
- Researched regulations related to company relocation and **presented** key insights to managers, achieving a 10% reduction in tax compliance errors

University of Notre Dame — **South Bend, IN**
Machine Learning Research Intern — May 2022-September 2022
- Developed **SQL** queries to extract and transform data from Wikidata, creating a database with 1.2 GB of big data
- Designed a **data model** with **80.1% accuracy** to **identify** assassination events and built pipelines to aggregate and store data from multiple reliable sources

PROJECTS

AI Chatbot with Client Group Persona for Nissan Marketing Department
- Built an AI chatbot powered by Llama 2 to provide informative and analytical responses for marketing managers, utilizing data from 10 years of marketing survey data

Data Management for Election Voters in Tenessue
- Designed and managed a **relational database** with 8 tables for voter events in Tennessee, **optimizing storage size and search efficiency**
- Developed a **user-friendly interface** enabling general users to add, delete, and edit data in the relational database with ease