Christina Zhou

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EDUCATION

Rice University, *M.S. in Data Science* 08/2024 - 12/2025(expected)

- **Relevant Coursework:** Programming for Data Science(A), Stats Computing Data Science(A), Data Visualization(A-)

Tsinghua University, *B.S. in Management Information Systems* 09/2020 - 07/2024

- **Relevant Coursework:** Database Applications(A), Machine Learning(A-), Information Systems(A), Java Programming(A)

SKILLS

Data Science: Predictive modeling, Data Visualization, Database Management, Text Analysis
Programming & Software: Python, SQL, R, PowerBI, Tableau, Azure, Excel, C, JavaScript

EXPERIENCE

Eceptionist **TX, USA**
Software Engineer Intern | Cursor, SQL, ASP.NET, JavaScript, C# 05/2025 - now

- Architected and deployed two full-stack analytics dashboards (Equipment & User) using ASP.NET Core and JavaScript to automate real-time operational reporting
- Authored and optimized SQL stored procedures to transform and aggregate thousands of raw records, ensuring data model integrity through API validation
- Initiated a predictive modeling project to forecast hospital bed availability, leading the data requirement analysis and feature engineering roadmap to optimize future capacity planning

Xiaomi Corporation - Global E-commerce Department **Beijing, China**
Data Analyst Intern | SQL, PowerBI, Google Analytics 08/2023 - 12/2023

- Collected traffic data weekly and monthly, generating reports with insights driving millions RMB in revenue growth
- Built dashboards using Google Analytics and internal data platform for 60+ projects needs, enabling data analysis across global business lines and countries
- Designed and implemented the web tracking system to ensure reliable event data collection through tag verification, standardized tagging and pre-launch validation

Charoen Pokphand Group Company CO., LTD. **Beijing, China**
Data Engineer Intern | Power Automate 08/2022 - 09/2022

- Utilized Power Automate to systematize daily marketing data collection and reminders for over 50 stores
- Collected, processed and visualized environmental data, using Excel to support potential decision-making insights
- Used exception handling to remove pop-ups, resolve freezing issues, standardize code and organize file storage, reducing data collection failure rate by around 80%

Tongdao Liepin Group CO., LTD. **Beijing, China**
Data Analyst Intern | SQL, Python, Excel 06/2022 - 08/2022

- Extracted a 120K-row dataset with 19 features using SQL, analyzed user login profiles and key behavioral patterns
- Conducted text analysis on 2K+ minutes of interview transcripts to identify candidate competencies
- Participated in market research and produced an analysis report on employment preferences of returned overseas students and local graduates(2022-present), informing recruitment and job-matching optimization

PROJECTS

Rice 2025 Datathon - 3rd Place Winner | *Python* 01/2025 - 01/2025

- Performed descriptive analysis to identify vehicle population trends and guide data preprocessing
- Engineered numeric features from categorical data and applied grouped median imputation for missing values
- Built Random Forest, XGBoost, and ensemble models, reducing RMSE from 12,000 to under 3,900

Second-hand Car Website | *Python, MongoDB, JavaScript, Vue* 07/2023 - 08/2023

- Developed a vehicle trading platform with price estimation, trend prediction, search, and user dashboards
- Utilized a Scrapy web crawler to collect 200K+ data of on-sale used cars and vehicle depreciation rates daily
- Conducted feature engineering on macro data (e.g., fuel prices, GDP, second-hand car transaction volume)
- Established price range prediction and time series forecast models based on Gradient Boosting Decision Trees
- Implemented the application using MongoDB (database), Node.js (back-end), Vue.js and ElementUI (front-end)

Classification for Customer and Product Attributes | *Python* 05/2023 - 06/2023

- Processed more than 600,000 user personal characteristics, product features, and product review data
- Vectorized text data with Tokenizer and Word2Vec, developed TextCNN and RNN, achieving 85.2% accuracy
- Predicted product ratings based on product characteristics and product evaluations by using a DataLoader and a transformer architecture through multiple iterations, improving prediction accuracy to 64.6%