SHIYUAN ZHANG

📞 217-377-5722 ✉ sz54@illinois.com 🔗 linkedin.com/in/shiyuan-zhang-309b24225 ⭘ github.com/SeanZh30

Education

University of Illinois at Urbana-Champaign · **Sep. 2023 – Dec. 2024**
Master of Computer Science · *Champaign, IL*
Dean's List · *GPA: 4.00/4.00*

University of Illinois at Urbana-Champaign · **Sep. 2019 – May 2023**
Bachelor of Science in Statistics, Minor in Computer Science · *Champaign, IL*
Dean's List in all semesters, Graduated in Highest Distinction · *GPA: 3.96/4.00*

Relevant Coursework

- Data Structures
- Software Engineering
- Database Management
- Computer Networks
- Computer Vision
- Algorithms Analysis
- Artificial Intelligence
- Statistical Modeling

Technical Skills

Code and Frameworks: Python, C/C++, R (dplyr, ggplot2, tidyverse), Java, SQL, MongoDB, Neo4j, HTML, CSS
Python Libraries: PyTorch, NumPy, SciPy, Pandas, Scikit-learn, NLTK, OpenCV, PySpark, Flask, Matplotlib, Seaborn
Analysis and Other Tools: Linux, GitHub, MATLAB, Docker, Jupyter Notebook, Tableau, Slurm

Academic Experiences

University of Illinois Urbana-Champaign, SIIP program · **December 2023 – Now**
Teaching Assistant · *Champaign, IL*
- Mentor: Prof. Sotiria Koloutsou-Vakakis.
- Focus: Responsible for assisting in the design and implementation of programming assignments in Python and R, and holding office hour.

University of Illinois Urbana-Champaign, TRAIS lab · **October 2023 – Now**
Research Assistant · *Champaign, IL*
- Mentor: Prof. Jiaqi Ma, Junwei Deng.
- Focus: Analyzing the influence of individual data points on the output of Music Transformer models by using TRAK and TracIn frames.

University of Illinois Urbana-Champaign, CS 411 · **May 2022 – August 2022**
Course Assistant · *Champaign, IL*
- Verified the logic of SQL queries, database creation, and storage questions.
- Completed the course questions answering, assignment grading, and exam supervision for more than 150 students.

Working Experiences

CCB Fintech · **May 2023 – August 2023**
Data Analyst Intern · *Shanghai, China*
- Conducted A/B testing on multiple controlled variable samples using R to assess the significant impact of various customer service strategies on advertiser satisfactory. resulting in a 12% higher retention rate.
- Built a robust customer credit control and risk management evaluation model using the Logistic Regressionand Decision Tree model in Python. Enhancing the efficiency of the credit granting procedure from 2 hours per customer to 10 mins.

Projects

Pneumonia Detection on Chest X-Rays With Deep Learning Model | *VGG-16/19, ResNet-50* · **October 2023**
- Handled the integration and cleansing of data from multiple public datasets, performed image enhancement, and normalization using OpenCV to improve model generalizability.
- Constructed the CNN using Pytorch, with an emphasis on transfer learning, adapting pre-trained network structures to fit the pneumonia detection task.

Database System based on GCP for Champaign Pet Store | *SQL, Python, Django, GCP* · **February 2022**
- Built a MySQL database of local pet store selling information based on GCP which realized the addition, deletion, modification, query of pet information, and feature filtering search.
- Used the Django framework of Python to build the corresponding web front end.