

Yijun Zhou

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EDUCATION

Rice University, Houston, TX

Expected Dec. 2023

M.S. in Data Science (GPA: 3.88/4.00)

University of California, Irvine, Irvine, CA

Jul. 2022

B.S. in Data Science (GPA: 3.79/4.00)

SKILLS

Languages: Python, Java, C++, HTML/CSS, JavaScript, SQL, R, Assembly

Tech: Git, React, MySQL, PostgreSQL, Power BI, Tableau, Google Cloud, AWS, PyTorch

PROJECTS

Social Networking Web: Full-stack Development | React JS, HTML, MongoDB Aug. 2022 - Dec. 2022

- Built a web application allowing users to log into their networking feeds to create their profiles, post updates, and do multiple interaction with other users such as following and commenting.
- Implemented **React Redux** to fulfill the front-end functionality; Designed the interface using **Bootstrap** and with **HCI** concepts to provide a great user experience
- Developed the back-end server with JavaScript and store data into **MongoDB** database.

Google-like Search Engine Project | Python, HTML/CSS, JavaScript, PostgreSQL Jan. 2022 - Mar. 2022

- Retrieved web pages from the UCI ICS domain and parsed files using **BeautifulSoup** and **NLTK**.
- Constructed an inverted indexer to store tokens and paired documents in the **PostgreSQL** database
- Designed a search interface with **front-end** tools to respond to multiple words query and display ranked results based on the calculation of its **TF-IDF** score and meta information
- Optimized the search rate by using **Hashmap**, and ensured each query response was under 15s

MineSweeper: Artificial Intelligence Project | Python, BFS

Mar. 2022 - Jun. 2022

- Implemented an AI Agent that plays MineSweeper(16*16 tiles 40 mines) with a 65% winning rate
- Identified the mines using **propositional logic** during the local search; and calculated probabilities of hitting mines for the unidentified tiles using **BFS** and **model checking**
- Improved efficiency by applying simple logic when the left time reached the pre-settled threshold

WORK EXPERIENCE

Data Science Intern - Bread Financial Holdings, Inc.

May. 2023 - Aug. 2023

- Developing and deploying a classification model that contributes to significant cost savings through enhanced post-origination **fraud detection** and prevention.
- Developed function to monitor input data for out-of-spec values leveraging advanced techniques, including time series analysis, for **anomaly detection**.

Data Science Intern - Beijing Kuaishou Technology Co., Ltd.

Apr. 2021 - Aug. 2021

- Built statistical and **ML** models to analyze user behaviors and discovered 2 new indicators that helped to improve the user retention rate by 5%
- Created and **design optimized database** tables and interactive Tableau dashboards
- Collaborated with the Product and MLE teams to build core KPIs for the next season