MINGCHAO ZHANG

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EDUCATION

Brown University

August 2022 - Present

M.S. in Computer Science

University of Illinois at Urbana-Champaign

May 2020

B.S. in Mathematics and Computer Science with Highest Honors

EXPERIENCE

Bloomberg

July 2020 - July 2022

Software Engineer

New York City, NY

- Involved in designing and implementing a highly-distributed market data platform composed of micro-services which handled a couple million market data querying requests daily
- Applied various graph algorithms and efficient data structures to enable clients to quickly and flexibly access different types of market data while minimizing processing loads of the micro-services
- Worked on a distributed system for calculating and optimizing the resource prediction for 1000+ users where raw data were pipelined through Spark and Kafka onto the cloud for heavy computing during the optimization

Cohesity

June 2019 - August 2019

San Jose, CA

Software Engineering Intern

- Developed a Python tool that measured how well different indices could perform at retrieving relevant documents, which were generated by various document summarization methods
- Implemented a Java plugin for Elasticsearch to enable customized document ranking given a customized mapping from indices to documents, which allowed non-default indices to be used in practice
- Integrated the best indexing schema into a production application which reduced the index storage size by 45%

PROJECTS

Hourglass

Chrome Extension, React, IndexedDB

- Developed a chrome web extension that kept track of users' browsing activities and patterns, which showed up whenever a tab was opened to remind users of time spent on social media and frequently visited websites
- Implemented all backend functions in IndexedDB, a local database, and integrated it with React to eliminate the need of connections to remote servers and the need of server maintainance
- Built advanced functionalities such as blacklists to block websites that users did not want to be tracked

Show me the Carb Fax

jQuery, PHP, SQL

- Created a web application that could suggest and adjust meal plans based on users' health goals in real time
- Implemented advanced SQL functions such as automatic deletions of food items on different triggers

SKILLS & RELEVANT COURSEWORK

Skills - Proficient Python, C/C++

Skills - Familiar HTML/CSS/Javascript/React, Java, Go, SQL

Scheme, Unix, Git, Docker, Elasticsearch

Relevant Coursework Data Structures, Algorithms, Operating Systems, Databases

Web Programming, Machine Learning, Computer Architecture