MINGCHAO ZHANG

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EDUCATION

University of Illinois at Urbana-Champaign   May 2020
B.S. in Mathematics and Computer Science with Highest Honors   *GPA: 3.83*

EXPERIENCE

Bloomberg   July 2020 - Present
Software Engineer   *New York City, NY*

- Involved in designing and implementing a distributed market data platform composed of micro-services that handles a couple million market data querying requests daily
- Worked on a distributed system for calculating and optimizing resource prediction for around 1000 users with technologies like Kafka, Spark and Python linear programming API

Cohesity   June 2019 - August 2019
Software Engineering Intern   *San Jose, CA*

- Developed a tool in Python that measured how well indices performed at retrieving relevant documents, which were generated by different document summarization techniques
- Implemented a Java plugin for Elasticsearch to enable customized document ranking given a customized document mapping
- Integrated the index schema into a production app which reduced the index storage size by 45%

UIUC Math and CS Departments   January 2018 - December 2018
Undergraduate Teaching Assistant for Discrete Math   *Urbana, IL*

- Co-taught 60-minute discussion sections weekly for 20 students with carefully selected practice questions that effectively prepared students for exams
- Hosted office hours and led exam review sessions, which received overwhelmingly positive reviews from students

PROJECTS

Hourglass
Chrome Extension, React, IndexedDB

- Developed a chrome extension that tracked users' browsing activities and patterns
- Implemented functions in React to read and render data from IndexedDB
- Designed and built advanced functionalities such as website blacklists

Show me the Carb Fax
jQuery, PHP, SQL

- Created a web application that suggested and displayed food items in real-time, using jQuery and PHP
- Implemented advanced database functionalities in SQL such as automatic deletions of certain food items

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