# MINGCHAO ZHANG

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 [github.com/mingchao-zhang](https://github.com/mingchao-zhang)  🔗 [mingchao-zhang.github.io](https://mingchao-zhang.github.io)  in [www.linkedin.com/in/mingchaoz](https://www.linkedin.com/in/mingchaoz)

## 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 distributed market data platform composed of micro-services that handles a couple million market data querying requests daily
- Applied various graph algorithms and efficient data structures to enable clients to quickly access different types of market data while minimizing processing loads of the micro-services
- 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%

## 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

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|---|---|
| **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 |