

# Mingli Zhang

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## Education

### University of North Carolina at Chapel Hill

North Carolina, USA

BSMS in Computer Science | BS in Mathematics

Aug 2018 - May 2022(BS) - May 2023(MS)

- **Undergraduate GPA: 3.8/4.0**, Dean's List from 2018-2023
- **Courses:** Advanced Operating System, Advanced Machine Learning, Digital logic, Algorithms and Analysis, Database, and Modern Web Dev
- **Research:** Information Retrieval and Data Visualization (Undergraduate); Algorithm Visualization, and Systems Research

## Work Experience

### IBM

North Carolina (remote), USA

Full Stack Developer Intern

May 2021 - Aug 2021

- Improved user experience on a development environment management platform that supports 2000+ IBM developers each month.
- Optimized administrative content tasks to reduce workload for developers, resulting in faster content updates and fewer required deployments.
- Founded an automated validation service using Sails.js that simplifies the process of maintaining the employee database, significantly reducing the amount of time previously required to process this task manually.

### Cymantix

North Carolina (hybrid), USA

Software Engineer

Oct 2021 - Feb 2023

- Engineered, with a team of five developers, a full-stack SaaS machine learning driven platform that integrated a WebRTC video conferencing app, an information retrieval app, and a core identity API. The platform played a key role in the company securing seed-round funding.
- Incorporated Microsoft Azure into our platform as per our client's request, providing more flexible login choices and enabling seamless secured data transfer between our data retrieval app and Microsoft's cloud storage.
- Utilized Socket.io to parallelize the real-time news analysis process in our data retrieval platform, leading to a 70% acceleration.
- Strengthened our critical data update pipeline with the implementation of bash scripts, Python, and a Cron job, resulting in increased reliability.

### Laboratory of Applied Information Science at UNC - Chapel Hill

North Carolina, USA

Research Assistant

Apr 2021 - Apr 2023

- Established data visualization using Tableau for UNICEF to monitor health conduction of children and women across 200 countries.
- Initiated a mobile application for a health data exchange platform using React Native and Flask Backend.

### ChampionPDI

Chapel Hill, UNC

Tech Lead / Product Manager

Jan 2023 - Present

- Lead a team of 6 new developers to create a sales representative management platform that recieved 200+ users from first week of launch.
- Designed the whole tech stack used in the project as well as the development pipeline.
- Laied the foundation of the whole project from the structure of the code base to the production timeline.
- Held weekly scrum meetings and code reviews to make sure that all team members are clear with their task and can deliver on time.

### Lenovo

Beijing, China

UI/UX Engineer Intern

Jun 2017 - Aug 2017

- Designed Lenovo's B2B web store with Mocking-Bot (similar to Adobe XD), providing retailers with access to product information for over 1000 products, as well as remote technology support and restocking capabilities.
- Negotiated with the marketing and human resources departments to determine the necessary resources for the completion of the project.

## University Projects

### SplinterDB

North Carolina, USA

UNC - Chapel Hill

Jan 2023 - Present

- Explored the area of Key-Value store for modern solid state storages by working closely with researchers from VMWare.
- Optimized SplinterDB's cache lookup table to support insufficient memory issue found in extream cases such as SGX.

### Social Web App

North Carolina, USA

UNC - Chapel Hill

Feb 2020 - May 2020

- Partnered with three classmates to engineer a social web app using HTML, CSS, and vanilla JavaScript.
- Built an entire back-end API and authentication system from scratch with documentation to guide the front-end team's integration and use.
- Presented the project to a class of over 100 students, receiving positive feedback on its design, functionality, and overall execution.

### Easy Access

North Carolina, USA

UNC - Chapel Hill

Feb 2022 - Apr 2022

- Restructured the back-end database schema for better scalability and data management efficiency.
- Documented the entire project structure, providing clear guidelines for future development teams to build upon and improve.
- Refactored the react code from five large javascript files to more than thirty component files for readability and reusability.

## Skills

### Programming

Python (Pandas, TensorFlow, NumPy, Scikit-learn. etc.), C/C++, HTML/CSS, JavaScript, SQL, Java

### Miscellaneous

Linux, Shell (Bash/Zsh), 𐤀𐤅𐤃𐤃, Tableau, Microsoft Azure, Firebase, Next/React, React Native, Flask, JQuery, CronJob, Elasticsearch

### Languages

English (Professional Proficiency), Mandarin (Native Proficiency)