

# MINGLI ZHANG

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CHAPEL HILL, NC

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## PROFESSIONAL SUMMARY

A rising senior at UNC-Chapel Hill studying Computer Science and Mathematics, with experience in full-stack development and data visualization. Currently interning as a Full-stack developer at IBM.

## SKILLS

### Programming languages

#### Frontend Tech Stack

- Javascript
- CSS
- HTML

#### Backend Tech Stack

- Javascript
- MongoDB
- MySQL
- SQL

#### Others

- Python
- TypeScript
- Java
- C

#### Libraries/Framworks

- Next.js
- Sails.js
- Flask
- React
- Carbon
- Node.js
- Express.js
- JQuery

### Languages

- English (Fluent)
- Chinese (Native)

## CORE CLASSES TAKEN

- Algorithms and Analysis
- Files and Databases
- Modern Web Programming

## RELEVANT EXPERIENCE

### Full stack developer Intern

IBM | May 2021 - August 2021

- Developed the foundation of a validation service that automats a fully manual process that took weeks to accomplish.
- Improved user experience on a platform that supports on average 2000+ users each month.
- Streamlined administration content activities to remove the need of updating through deployment. This freed up development resources, increased speed to update content, and cut down the number of deploys.
- Worked closely with project management to provide feedback on component functionality and the flexibility that we could deliver to stakeholders to improve user experience on the site.

### UI/UX Design Intern

Lenovo, Beijing, China | Jul 2017 - Aug 2017

- Used MockingBot (Like Adobe XD) to designed Lenovo's B2B web store that provides all Lenovo's retailers with product information and is able to restock products easily.
- Determining the amount of resources needed for the project and reported to marketing and human resources. This earned the team more time to work on the project and it turned out well polished.

### Undergraduate Learning Assistant for Computer Organization

UNC Department of Computer Science | Jan 2020 - May 2020

- Taught students about transistors, computer chip design, instruction sets, memory structures, and machine language.

## MAJOR PROJECTS

### IBM Environment Collection platform Frontend

IBM, 2021

- Learned Next.js and started contributing to the front-end codebase.
- Improved user experience by fixing bugs such as text fields unable to backspace over the first character and the content displayed as hover-over messages. Also implemented breadcrumbs to improve the ways users can navigate the site.
- Implemented user access permissions to better maintain a level of security o the site. This also improved admin functionality and reduced confusion of basic users on the site.
- Implemented a custom filter select and search field that can work with 10000+ elements.

### Validation Service

IBM, 2021 Summer

- Learned Sails.js and developed a back-end validation service using it.
- It maintains the quality of the content in a crowdsource community model as it checks the validity of each collection's owner and the latest date of modification. If determined to be invalid, it can notify the owner, retire, archive, soft delete, or delete the collection.
- Allows quick changes to the action type without a code deployment.

### Social Web App    [\[link\]](#)    [\[Github1\]](#)    [\[Github2\]](#)    Web Programming Final Project, 2020

- Utilizing *Javascript*, *HTML*, *CSS*, and a *REST API* for the *Firebase* backend to create a web-based social app.
- Developed the backend and the login/sign-up function. I also tuned the design of the website.
- Functionalities including a user-matching system, a live chat, an anonymous post box, and a quiz game.

## EDUCATION

### University of North Carolina at Chapel Hill

May 2022

*Bachelor of Science in Computer Science (Primary Major) and Mathematics (Secondary Major)*

- Dean's List from 2018 to 2021
- GPA: 3.9+