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) - Aug 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 maintaining the employee database, significantly reducing the 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 crucial role in the company securing seed-round funding.
- Incorporated Microsoft Azure into our platform 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.
- Refactored the codebase and transitioned from pure HTML, CSS, and in-line JavaScript to Next.js
- Utilized Socket.io to parallelize our data retrieval platform's real-time news analysis process, leading to a 70% acceleration.
- Strengthened our critical data update pipeline by implementing 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 the 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*

- Led a team of 6 new developers to create a sales representative management platform that received 200+ users from the first launch week.
- Designed the whole tech stack used in the project and the development pipeline.
- Laid the project's foundation, from the code base's structure to the production timeline.
- Held weekly scrum meetings and code reviews to ensure all team members were transparent with their tasks and could 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 and remote technology support and restocking capabilities.
- Negotiated with the marketing and human resources departments to determine the necessary resources to complete 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 issues in extreme 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 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.
- Remodeled the react code from five large javaScript files to over 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), LaTeX, Tableau, Microsoft Azure, Firebase, Next/React, React Native, Flask, JQuery, CronJob, Elasticsearch
Languages   English (Professional Proficiency), Mandarin (Native Proficiency)