Mingli (Mike) Zhang

Chapel Hill, North Carolina

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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 2018-2022
- **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.

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 a thousand 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

ChampionPDI *North Carolina, USA*
Cutco *Jan 2023 - May 2023*
- Led a team of six undergraduate computer science students as the product manager of the project in the creation of an ERP platform for Cutco.
- Supervised the development process to ensure all code met production standards and that each team member's work was correctly integrated and aligned with project goals.
- Hosted weekly development sessions to demonstrate feature development techniques, best practices, and debugging strategies to team members and promote skill-building.
- Reviewed project progress with the project manager and worked together to set achievable goals for each milestone.

Social Web App *North Carolina, USA*
UNC - Chapel Hill *Feb 2020 - May 2020*
- Partnered with three classmates to engineer a social web app using Socket.io for chat communication 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, reducing data redundancy and improving 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), LaTeX, Tableau, Microsoft Azure, Firebase, Next/React, React Native, Flask, JQuery, CronJob, Elasticsearch
Languages	English (Professional Proficiency), Mandarin (Native Proficiency)