

# Mingli Zhang

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## Objective

Seeking a full-time full-stack or backend developer/engineer position to apply my academic background and previous experience in developing user-centric products and services. Eager to contribute to a collaborative team, continuously enhance my skills, and work towards a future role as a mentor to support and guide emerging talent in the industry.

## Work Experience

### ByteDance | Machine Learning Backend Engineer | San Jose, CA, USA

Jan 2024 - Present

A member of IT's Enterprise Solution AI Operations Algorithm Team

- Led a team of 6 developers to launch a sales representative management platform that gained 200+ users in the first week.
- Initiated weekly scrum meetings, code reviews, and tech talks, which reduced learning costs and enabled all developers to contribute quality code after just 1 month.
- Delivered a production-quality web application within just 2 months using **HTML**, **CSS**, **JavaScript**, and **WebPack** for frontend and **Firebase** backend.
- Transitioned the project to **React** post-launch, which reduced database queries by 60% and reduced loading speed by 50%.

### ChampionPDI | Lead Software Engineer (Part Time) | North Carolina, USA

Jan 2023 - Sep 2023

Created and launched a powerful sales representative management platform for Cutco.

- Led a team of 6 developers to launch a sales representative management platform that gained 200+ users in the first week.
- Initiated weekly scrum meetings, code reviews, and tech talks, which reduced learning costs and enabled all developers to contribute quality code after just 1 month.
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### Cymantix | Software Engineer (Part Time) | North Carolina, USA

Oct 2021 - Feb 2023

A SaaS tech startup that integrated machine learning with data analytics and information retrieval.

- Identified and resolved **communication issues** proactively between clients and engineers, which boosted the company's reputation and gained 3 additional clients.
- Investigated replacing K-Means with Hierarchical clustering on the **Flask (Python)** backend, which reduced computation and user wait time by 10%-60%.
- Optimized real-time news analysis using **multithreading**, **NodeJS** and **Socket.io**, which decreased user wait time by 90%.
- Created a full-stack machine-learning-driven data analytics web platform in a global team of 5 engineers that secured seed-round funding.
- Refactored codebase to **Next.js** and added animations using **D3.js**, which reduced 20% code redundancy and provided a smoother user experience.
- Integrated **Microsoft Azure** into our platform, which provided login options and secure data storage from Microsoft's cloud. Resulted in a cost-effective transition for users and gained 2 non-profit organizations as clients within 1 week.

### IBM | Full-Stack Engineer (Summer Intern) | North Carolina, USA

May 2021 - Aug 2021

Worked on IBM's internal platform that provisions and customizes live demo environments.

- Co-founded an automated validation service using **SailsJS** that streamlined database maintenance and saved the team \$14,000 annually by eliminating headcounts for manual tasks.
- Enhanced user experience based on user feedback using **NextJS**, which expanded the monthly user base to over 12,000+.
- Streamlined administrative content processes, achieved faster content updates, and reduced redeployments by over 20 per week.

## Major Projects

### Research Projects | UNC - Chapel Hill | North Carolina, USA

Apr 2021 - Aug 2023

Research projects under the computer science or information science department

- Identified and resolved memory limitations using **C** in SplinterDB and only suffered a 5% performance hit.
- Visualized health data using **Tableau** and **HTML** for UNICEF, which aided the United Nations' efforts to support 190 disadvantaged areas.
- Initiated a health data exchange mobile application platform using **React Native**, and **MySQL** and **Flask** Backend.

### Easy Access | UNC - Chapel Hill | North Carolina, USA

Feb 2022 - Apr 2022

A platform to help high school students and counselor in the college application process.

- Remodeled the frontend **React** code and broke down to reuseable components, shrinking the project size by 20%.
- Restructured the backend database using **SailsJS** and **MongoDB**, reducing data redundancy by 30% and transaction by 50%.

## Education

## University of North Carolina at Chapel Hill

Master's of Science in Computer Science | Aug 2022 - Aug 2023

- GPA: 3.9/4.0.

Bachelor's of Science in Computer Science and Mathematics | Aug 2018 - May 2022

- GPA: 3.8/4.0, Dean's List from 2018-2022.

## Skills

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<b>Coding</b>	JavaScript, SQLite, Python(Pandas, TensorFlow, NumPy, Scikit-learn, etc.), C/C++, HTML/CSS, Bash, Zsh, Java
<b>Technologies</b>	NextJS/React, NodeJS, React Native, Git, Flask, jQuery, Microsoft Azure, Firebase, Linux, Tableau, MySQL
<b>Hobbies</b>	Cooking, Barista, and Hardware