Mingli Zhang

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Objective

Seeking a full-time software 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 _

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 successfully 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 resulted in a 60% reduction in database queries and a 50% faster loading speed.

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**, which reduced computation and user wait time by 10%-60%.
- Optimized real-time news analysis using multithreading and Socket.io and decreased user wait time by 90%.
- Created a full-stack machine-learning-driven data analytics 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+ IB-Mers.
- Streamlined administrative content processes, achieved faster content updates, and reduced redeployments by over 20 per week.

Major Projects

One Pixel Attack Defense | UNC - Chapel Hill | North Carolina, USA

Aug 2022 - Dec 2022

Defense against a speical adversarial attack on CNN networks

- Trained **one-pixel attack** on image recognition **CNN** that achieved a 10% success rate using limited computation power.
- Implemented **seam carving** in **Python** for a pre-process resizing operation, which reduced the attack success rate by 50%.

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 for UNICEF, which aided the United Nations' efforts to support 190 disadvantaged areas.

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

Coding JavaScript, SQLite, Python(Pandas, TensorFlow, NumPy, Scikit-learn.), HTML/CSS, C/C++, Bash, Zsh, Java

Technologies Next/React, React Native, Git, Flask, jOuery, Microsoft Azure, Firebase, Linux, Tableau, CronJob

Hobbies Cooking, Barista, and Hardware

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