Xinran Cao

xrcao@umich.edu | (734) 294-9944 | linkedin.com/in/xrcao/ | github.com/XinranCao | xinrancao-portfolio.pages.dev/

EDUCATION

University of Michigan – Ann Arbor   **Aug.2022 – Expected 2024**
M.S. in Information | User-Centered Agile Development | GPA: 4.0/4.0
University of Wisconsin – Madison   **Sep.2016 – May.2020**
B.S. in Computer Science & B.S. in Applied Mathematics | GPA: 3.8/4.0

WORK EXPERIENCE

Software Development Intern | WIRED-L Center | Umich   **Jan.2024 – Current**
- Work with researchers to build **Angular** software that address medication adherence in participants with hypertension.
- Re-structure the navigation and 4 modules with **TypeScript** to improve information architecture and build health survey form component and medication-taking charts to better collect, track and display user health data.

Graduate Student Instructor | Building Interactive Application | Umich   **Jan.2024 – Current**
- Tutored 80+ students in total in front-end development with **vanilla JS** and **React**, enhancing their practical skills and core concept comprehension, while emphasizing professional coding standards and project management practices.
- Refined test cases for 20+ assignments using the **Cypress** framework, configured GitHub Classroom, and integrated the auto-grader with GitHub Actions. This streamlined the grading process and ensured consistent assessment.
- Collaborated in the design of JS and React course content, creating practical assignments that challenge students to apply real-world development techniques, preparing them for professional roles.

Front-End Developer Intern | Shanghai Aitai Technology   **Nov.2020 – Aug.2021, May.2023 – Aug.2023**
- Independently built "Beneficiary" module for **financial SaaS platform**, featuring data management and analytics across 3 distinct pages with 20+ subpages. This comprehensive module, integrated via **REST APIs,** enhances business data insights and streamlines operations through tailored functionalities like data visualization and data management.
- Implemented 10+ decision-support web modules using **React, Umi, Ant Design, Antv G2 Charts and Echarts**. These modules directly enhance primary market investor's decision-making precision and agility within our platform.
- Engineered 5 cross-platform cloud file management modules using **React, Taro** and **WeChat Devtools**, with an **HTML5** mobile interface and **WeChat Mini Program**. Added 3 improved features that facilitated seamless cloud document management and commenting functions, with responsive design ensuring consistency across all devices.

PROJECTS

Full Stack Mobile Application Developer | FluffyFinder   **Sep.2023 – Dec.2023**
*Team Project – **https://github.com/XinranCao/FluffyFinder***
- Led the team to complete development of FluffyFinder, an application helps users find lost pets. The lifecycle included UI/UX research & design, development with **React Native** and setup Authentication and database on **Firebase**.
- Developed 5 key functionalities and utilized the inherent capabilities of mobile devices, such as camera access, location services, and other permissions, to empower users with comprehensive tools for efficiently finding lost pets.

Lead Web Application Developer | EcoLogical   **Jun.2023 – Oct.2023**
Team Project
- Led the development lifecycle of the Ecological business-side web application, managed versioning using **Git** and **GitHub**, and collaborated with UI/UX designers and backend engineers to iteratively refine the application.
- Handled form validation and submission and incorporated third-party APIs such as **Stripe** Payment for secure payment and **Google Autocomplete API** for auto-filling address, elevating user experience and boosting transaction confidence.
- Connected to the backend application using **GraphQL APIs** and deployed the entire service via **AWS Amplify**.

Full Stack Engineer | Personal Portfolio and Blog Platform   **Summer 2023**
*Individual Project – **next-blog-capsule.vercel.app/***
- Utilized **Next.js** for building and deploying a responsive web platform for personal portfolio and blog posts on **Vecel**.
- Incorporated **Next Auth** and **Google Auth** for user authentication and used **MongoDB** for blog post **CRUD** operations.
- Applied **Next.js Context API** to manage global state and deployed strategic **SEO** techniques to elevate web visibility.

SKILLS

- **Technical**: JavaScript, TypeScript, HTML, CSS, Node, React, Next, React Native, Angular, REST, GraphQL, Java, C, Python, Django, SQL, AWS