Xinran Cao

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EDUCATION

University of Michigan – Ann Arbor   **Aug.2022 – Expected 2024**
M.S. of Science 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
- Awards/Honors: Distinctive Scholastic Achievement (Top 20%), Dean's List

WORK EXPERIENCE

Front-End Development Teaching Assistant | Building Interactive Application | Umich   **Aug.2023 – Current**
Instructional Aide for SI 579
- Tutored 30+ students 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.
- Assisted in crafting and refining 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, ensured consistent assessment, and allowed for detailed feedback, enabling students to correct and optimize their code.
- Collaborated in the design and critical review 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 Consulting Co., Ltd   **Nov.2020 – Aug.2021**
(Asked to return for second stint)   **May.2023 – Aug.2023**
- Independently built "Beneficiary" module for our **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 functionalities like data visualization, advanced filtering, and multi-faceted data manipulation. (Summer 2023)
- 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 features like OCR, an online review-commentary system, and approval process. These improvements facilitated seamless cloud document management, submission, and feedback on our financial SaaS platform, with responsive design ensuring consistency across all devices.

PROJECTS

Lead Web Application Developer | EcoLogical   **Aug.2023 – Current**
Team Project
- Led the complete development lifecycle of the Ecological business-side web application. Set up application structure and routing using **Umi**, ensuring application scalability, efficient platform performance, and a friendly user experience.
- Managed feature development and versioning using **Git** and **GitHub** in alignment with project objectives.
- 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**.
- Collaborated closely with UI/UX designers and backend engineers to iteratively enhance and refine the application.

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 the **Next.js Context API** to streamline global state management and deployed strategic **SEO** techniques to elevate web visibility, enhancing the user interfaces and user experiences.

SKILLS

- **Technical**: JavaScript, HTML, CSS, Node, React, Next, React Native, REST, GraphQL, Java, C, Python, Django, SQL
- **UX Design**: Agile UX, Contextual Inquiry, Heuristic Evaluation, Affinity Diagram, Wireframing, Usability Test,