Jie Catherine Zhou

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SUMMARY

An Inspired Software Engineer specializing in **Front End** and **Full Stack development** with expertise in building dynamic and responsive web applications, adept at translating complex requirements into scalable solutions

EDUCATION

University of Michigan, Ann Arbor **Ann Arbor, MI**
M.S. in Information, GPA: 4.0 / 4.0 Sep 2023 - May 2025
University of California, Davis **Davis, CA**
B.A. in Psychology and Cognitive Science, GPA: 3.82/4.0 Sep 2019 - Jun 2022

WORKING EXPERIENCE

Full Stack Software Engineer **Ann Arbor, MI**
Up Cancer Sep 2024 - Dec 2024
- Developed a dynamic Kanban board system for a CRM using **React**, **Redux**, and **JavaScript**, enabling efficient task management and communication
- Enhanced task **visualization** with drag-and-drop functionality, color-coded labels, and real-time updates by extracting the common logic and modularizing it for scalability
- Implemented task management via **Redux** with optimized state tree organization, action handling, and reducers for seamless data flow, easing state management and enhancing web stability
- Introduced a **dark mode feature**, allowing users to toggle theme preferences via a switch bar, improving user experience

Front-end Engineer **Ann Arbor, MI**
LearningClues Jan 2024 - May 2024
- Designed and implemented the instructor dashboard using **Typescript**, **Next.js** with **Tailwind CSS**, enabling instructors to view students' prompts to Gen AI, edit inaccurate outputs, and arrange the learning sources
- Developed **reusable React components**, including a directory tree, navigation aids, and a sortable, paginated table to support **web accessibility**, reusing components across 5 different pages
- Engineered and deployed frontend infrastructure on **AWS with CDK**, integrated comprehensive monitor metrics and alert configuration to ensure high availability and performance of web applications
- Collaborated with development teams, fostering a productive environment and improving project delivery through **Agile methodologies** and **Jira**

Instructional Aide for JavaScript and React Course **Ann Arbor, MI**
University of Michigan - School of Information Aug 2024 - Nov 2024
- Developed and implemented **E2E** and **component tests** using **Cypress** for 10+ distinct projects, evaluating over 500 student submissions
- Configured **GitHub Classroom** to enhance user experience by incorporating personalized feedback tools and integrating **automated grading workflows**

TECHNICAL SKILLS

Programming Languages: JavaScript, Java, Typescript, Python, Node.js, HTML, CSS, SQL
Technologies: React, React Native, Redux, Material UI, Tailwind CSS, Jotai, Express, jQuery, Next.js, Vue.js, Django, SpringBoot, Bootstrap, MongoDB, MySQL, PostgreSQL, Git
Tools: Webpack,Vite, Git, Jira, Jest, Mocha, Cypress, AWS

PROJECT EXPERIENCE

Salinaka: A Full Stack E-Commerce Website **Live | Git**
- Constructed an advanced e-commerce website via **React**, empowering customers to conveniently add eyeglasses to carts, explore in-depth product information for MSKU and SKU items, and seamlessly finalize purchases; resulting in a 20% decrease in bounce rates
- Developed and implemented a registration and social login system on a shopping website, leveraging **MongoDB** for robust data storage; improved user convenience