

# Catherine Jie Zhou

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## EDUCATION

### University of Michigan, Ann Arbor

M.S. in Information, GPA: 4.0 / 4.0

Ann Arbor, MI

Sep 2023 - Present

*Relevant Courses:* Building Interactive Apps, Database App Design, Data Structures & Algorithms, Introductory Programming, Intermediate Programming, Servers & Git, Web Design, Graphic Design

### University of California, Davis

B.A. in Psychology and Cognitive Science, GPA: 3.82/4.0

Davis, CA

Sep 2019 - Jun 2022

## TECHNICAL SKILLS

**Programming Languages:** JavaScript, Typescript, Java, Python

**Web Development:** React, Express, Next.js, Django, MySQL, HTML & CSS, Bootstrap, Tailwind

**Web Design:** Figma, Adobe Photoshop, Adobe Illustrator

## WORKING EXPERIENCE

### LearningClues

Ann Arbor, MI

*Designer & Front-end Engineer*

Jan 2024 - May 2024

- Conducted a focus group with instructors to understand their willingness to use education technology in lectures and explored their expectations for features on CourseGPT's instructor dashboard
- Designed and implemented the instructor dashboard using Figma, Typescript, Next.js with Tailwind CSS, enabling instructors to analyze the most challenging problems for students based on the frequency of questions that have been asked on the CourseGPT, facilitating targeted intervention for enhanced support
- Created a suit of 10+ reusable React Components and 10+ hooks, including components for file organizers, student reviewing, and navigation aids, enhanced user experience cohesion and maintainability

## PROJECT EXPERIENCE

### Salinaka: E-Commerce Website

- Developed an advanced e-commerce website using React, Redux, enabled features like CRUD items to carts, product listings, and detailed product information
- Choose Redux Toolkit for centralized state management to handle complex application state efficiently. Managed shopping cart data across pages with organized state trees, actions, and reducers, ensured consistent updates, improved stability, and responsiveness

### PetLab: Pet Breed Lookup Website

- Leveraging Ant Design and Bootstrap as primary React UI library, achieving functionalities like Breed Search Bar, Breed Information Display, and Pet Name Customization, complemented by Mui X for robust data visualization to increase the user interactions
- Employed local memory for storing personal collection data, ensuring that breed lists, breed information, users' favorite breeds, and custom nicknames are preserved between sessions, reducing the API call times, speeding up page loading, and thus boosting the overall performance

### NFT Price Visualization: A React-based NFT Price Visualizer

- Built an NFT dashboard to search, view, and analyze NFT assets using React, while utilizing Ant Design UI Component Library to boost client-side development
- Leveraged Moralis NFT API to fetch NFT-relevant data (e.g. price, name, description, etc.), designed NFT trade/price chart UI and implemented it using recharts, and deployed the project on the AWS Amplify

### Staybooking: A Full-Stack Online Stay Rental Application based on React and Spring Boot

- Designed and built a single-page web application using React, and bootstrapped the development with mature component library Ant Design
- Used MySQL to store user-generated data, e.g. stay information and reservation history, and utilized Google Cloud Storage to store media files for the uploaded stays