

# Shizhan (Victoria) Liu

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👤 DEI Membership: GHC, Tapia, RTC, GWC, SWE 🏠 <https://github.com/ShizhanLiu>

## Education

### Northeastern University

*Master of Science in Computer Science*

Sep 2023 – Expected May 2025

Seattle, WA

### The Ohio State University

*Bachelor of Science in Mathematics, GPA 3.86/4.0*

Aug 2018 – Dec 2021

Columbus, OH

## Skills

**Languages:** Java, JavaScript (ES6+), TypeScript, SQL, Python, MATLAB, Git, Assembly Language

**Frameworks:** React, SpringBoot, MyBatis, Spring MVC, Spring, Bootstrap, Junit

**Tools:** HTML5, CSS3, XML, MySQL, JSP, Ajax, Promise, Docker, Servlet, SEO, Restful API, Maven, PowerShell

## Work Experience

### CodeDay Labs

Jun 2023 – August 2023

*Software Engineer Intern*

Remote, USA

- Implemented a feature to generate screenshot of a website in base 64 format for Appwrite, a backend platform for developing web, mobile, and flutter application supported by open-source community.
- Utilized Springboot, Restful API and Junit to design API logic and PostMan platform for API testing.
- Used Git for source code version control, effectively managing and tracking changes, packaged all services into Docker to enable flexible resource sharing.
- Built the feature in Appwrite function format and interacted the function with Appwrite server using PowerShell.
- Successfully deployed the screenshot feature, which was used by over 1,000 users within the first week of launch, with a positive user feedback score of 4.5/5.

### WeiAn Cultural Communication Co., Ltd

Jun 2022 - Sep 2022

*Software Engineer Intern*

Henan, China

- Restructured a website with React, HTML, CSS, and TypeScript for a local food advertisement event, leading to a 15% increase in event Influence. The website served over 2,0000 users in the first month post-launch.
- Built a recipe search feature which users can search, bookmark, update, and delete over 1,000,00 local food recipes.
- Utilized Ajax, Promise, and Fetch API to design efficient API calls, enabled effective rendering of Restful API recipe data on the client-side, leading to a 25% reduction in query response times and ensuring seamless interaction for users.
- Optimized responsive design principles by employing Bootstrap, Grid & Flex layout, and Media Queries, yielding 5 breakpoints responding to any possible screen size.
- Improved the web page quality by following Search Engine Optimization practices, achieving 95/100 performance score in Google LightHouse automated test tool.

## Projects

### Strays Management Platform | <https://github.com/ShizhanLiu/StraysAdoption>

Feb 2022 - May 2022

- Developed a full-stack platform for strays management where users could browse, login, comment, and request adoptions.
- Built a responsive front-end website using CSS, HTML, JSP, and JavaScript, allowing potential adoptors to browse pet photos, read pet descriptions, and submit adoption applications.
- Implemented data transfer between web and server using Ajax, optimizing page load speed by 15%.
- Developed a robust backend system using SpringBoot and MySQL, achieved CRUD operations for adopters, admins, and pets modules through MyBatis.
- The platform was widely used by Zhengzhou University students and successfully helped over 100 strays find homes within the first two months of launch.

### Personal UI library | <https://github.com/ShizhanLiu/personalUILib>

January 2023

- Established a new React UI library using React18, React Hooks, TypeScript, involving the entire process from analysis to deployment.
- Designed Unit Tests using React-testing-library and Jest for all components, achieving 90% code coverage.
- Successfully launched the library with 10 high-quality React components. Achieved efficient module bundling through Webpack and established a CI/CD pipeline using Travis CI, leading to a 25% reduction in deployment time.
- Implemented an automatic technical documentation generation process and created a static documentation page using Storybook, enhancing developer productivity.