Shizhan (Victoria) Liu

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👥 DEI Membership: GHC, Tapia, RTC, GWC, SWE   ⬡ https://github.com/ShizhanLiu

Education

Northeastern University   **Sep 2023 – Expected May 2026**
Master of Science in Computer Science, GPA 3.7/4.0   *Seattle, WA*
The Ohio State University   **Aug 2018 – Dec 2021**
Bachelor of Science in Mathematics, GPA 3.86/4.0   *Columbus, OH*

Skills

Languages: Java, JavaScript, TypeScript, SQL, Python, MATLAB, Git, Assembly Language
Frameworks: React, SpringBoot, MyBatis, Spring MVC, Spring, BootStrap, Junit, Aura, Lightning Web Components
Tools: HTML5, CSS3, XML, MySql, JSP, Ajax, Promise, Servlet, SEO, Restful API, Maven, Docker, PowerShell

Work Experience

Salesforce   **May 2024 – August 2024**
Software Engineering Intern, Experience Cloud Org   *San Francisco, USA*
- Implemented a Preview feature for Lightning App Builder, a tool for customizing dynamic page layouts, allowing users to set form factors (phone, tablet, computer) for components and preview flexipages without switching devices.
- Developed a front-end Preview modal using Aura and Lightning Web Components (Salesforce UI framework) with a form factor list and action button to render Flexipage layouts,improving design efficiency by 20%.
- Navigated a large legacy Spring and Spring MVC codebase to manage "generateFlexipage" API calls from both runtime and design time, and developed an API to control component rendering based on visibility rules.
- Streamlined the Preview workflow by auto-populating Flexipage identifiers, eliminating manual input errors completely.
- Conducted Spikes on Flexipage Generation and Visibility Rule Consumption, authored 20,000+ words of documentation, delivered 5 Knowledge Transfers.

CodeDay Labs   **Jun 2023 – August 2023**
Open-Source Software Engineering Intern   *Remote, USA*
- Implemented a module 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.
- Established the module using Springboot, Robot Class, and java.io package, designed the Restful API of the module and tested them using Junit and PostMan.
- Used Git for source code version control, effectively managing and tracking changes, packaged the module into Docker and interacted 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.

Projects

Omnifood Website | *https://omnirecipe.netlify.app*   **March 2024 – May 2024**
- Built a website for an AI food company with CSS, HTML, React, and JavaScript to advertise healthy meal plans, achieving 85/100 performance score in Google LightHouse automated test tool by following SEO practces.
- Implemented a recipe search feature using Spring Boot for back-end logic, MySQL and MyBatis for data storage and interaction, enabling users to create, read, update, and delete over 10,000 local food recipes.
- Utilized Ajax, Promise, and Fetch API to design efficient API calls, enabled effective rendering of Restful API recipe data, leading to a 25% reduction in query response times and ensuring seamless interaction for users.
- Accomplished responsive layout by employing Bootstrap, CSS Grid & Flex layout, and Media Queries, yielding 5 breakpoints responding to any possible screen size, enhancing user experience by 30% percent.

Personal UI library | *https://github.com/ShizhanLiu/personalUILib*   **Oct 2023 – Dec 2023**
- Launched a new React UI library with 10 robust react components (Input, Upload, Tabs, Icon, Form, etc.) using React, React Hooks, and TypeScript.
- Designed Unit Tests using React-testing-library and Jest for all components, achieving 90% code coverage.
- Optimized the build process by integrating Webpack for efficient module bundling and established a CI/CD pipeline with Travis CI, which reduced deployment time by 25%.
- Established an automatic documentation generation process by StoryBook, producing interactive documentation.