

Zhaoyu Liu

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Summary: Passionate, dedicated problem solver who enjoys using software engineering to create positive impact. Looking for **software engineer** or **full-stack engineer** opportunities

Skills

Languages: HTML, CSS, Javascript/ES6, Python, Java, C++, Typescript, SQL, SCSS, Bash

Frameworks & tools: React.js, Node.js, Express.js, Flask, Webpack, Babel, Git, MongoDB, MaterialUI, Bootstrap, Jest

Soft skills: problem solving, dedicated, team player, cross-functional alignment

UX & UI: User Research, Ideation, Prototyping, Wireframing, Usability Testing, Figma, Sketch

Education

University of Washington, Seattle

B.S. in Human Centered Design & Engineering (STEM)

Focus: **Human-Computer Interaction**

GPA: **3.82/4.00**

Honors: **10** quarterly UW Deans' Lists

Highlighted Course Work: Object-oriented Programming, Web development

Spring, 2023

Data Structures & Algorithms, Database System

Experience

Full-stack Developer UW Ocean Data Lab

- Designed and built a [website](#) from scratch to visualize long-term ocean ambient sound data using **React.js** and **Python Flask**, and **MUI**
- Led weekly meeting with Professor Shima Abadi, created roadmaps for the website, and initiated ideas for new features and optimizations to improve the website's usability
- Implemented an interactive world map with **ArcGIS**, which provides a better map visualization for the ocean researchers to explore variations hydrophone locations
- Automated build and deployment process using AWS Codepipeline, and deployed the website on **Amazon EC2**

Seattle, WA

June 2022 - Present

Full-stack Developer UW Simoni Lab

- Improved the compatibility of existing Wechat mini-program by making the UI components responsive to different viewports
- Worked in agile team and developed a management system to visualize HIV patients' progression on medication using **React**, **Redux**, **MUI**
- Added user authentication to the management website by using **Amazon Cognito**

Seattle, WA

May 2022 - Present

Project

Employeefind

- Designed and developed a responsive, cross-browser web application for employers to find employees quickly by using **React.js**, **React Redux**
- Built back-end server with **Express.js** and stored user information in **MySQL** database
- Created mocked **RESTFUL APIs** with **Axios-mock-adaptor** and simulate the process of **CRUD** operations on users' profiles
- Implemented User authentication with **JWT token**

June, 2021 - Present