

## Zhaoyu Liu

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## Education

### University of Washington, Seattle

B.S. in Human Centered Design & Engineering

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 **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

### Front-End Developer **Embrace the Sunshine**

- 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**
- Created mocked **RESTFUL APIs** with Axios-mock-adapter and simulate the process of **CRUD** operations on users' profiles
- Implemented User authentication with **JWT token**

June, 2021 - Present

## Skills

### Languages

HTML CSS Javascript/ES6  
Typescript Python Java  
SQL SCSS Node.js

### Tools & Frameworks

React.js Node.js Express.js  
Flask Webpack Babel Git  
MongoDB MaterialUI  
Bootstrap Jest

### UX & UI

User Research Ideation  
Prototyping Wireframing  
Usability Testing  
Figma Sketch