Zhaoyu Liu

"Constant dropping wears the stone"

Education

University of Washington, Seattle   *Sping, 2023*

B.S. in Human Centered Design & Engineering

Focus: Human-Computer Interaction   GPA: **3.82/4.00**

Honors: **10 consecutive** UW Deans' List

Working Experience

Software Engineer Intern | Ocean Data Lab

Seattle, WA   *June 2022 - Present*

· Designed and built a website to visualize long-term ocean ambient sound data using **React.js** and **Python Flask**

· Made the website responsive to different viewport size by adapting the **Material UI** grid system

· Created interactive Box chart for analyzing ocean sound data with **Jupyter Notebook**

Front-End Developer | Embrace the Sunshine

Seattle, WA   *May 2022 - Present*

· Improved usability of existing mini-program pages by making them responsive to the phone screen

· Built a management website for the research administrators to perform **CRUD** operation on data stored in AWS cloud

Projects

Ocean Lab Data Interface   *June, 2022 - Present*

· Embedded a world map into the web interface with **Mapbox GL JS**

· Encoded JPG visualizations to **base64** strings and send it to front-end website for images downloading

· Deployed the website on **AWS EC2**

Employeefind   *June, 2021 - Present*

· Designed and developed a web application for employers to find employees quickly by using **React.js**

· Managed project states by using **React Redux**

· Enabled user profile updation with **RESTFUL APIs**

· Built responsive UI components with **Material UI**

· Implemented User authentification with **JWT** token

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Programming Languages

· HTML · CSS · Javascript

· Python · Java · SQL · SCSS

· Node.js

Tools

· React.js · Node.js · Express.js

· Flask · MongoDB · AWS EC2

· Git · Bootstrap · Webpack

· Babel · MaterialUI · Bootstrap

· Figma · Sketch

Courseworks

Data Structures & Algorithms

Object-oriented Programming

Human-Computer Interaction

Web development

Machine Learning

Design

User Research

Ideation

Visual Design

UX Prototyping

Wireframing

Usability Testing