## Zhaoyu Liu

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Portfolio: [andrew-liu.co](andrew-liu.co) | Github: [github.com/AndrewLiu66](github.com/AndrewLiu66)

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, Flask, Webpack, Babel, Git, MongoDB, MateialUI, Jest

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

### 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

Expected Graduation
June, 2023

Highlighted Course Work: Object-oriented Programming, Web development, Data Structures & Algorithms, Database System, Machine Learning

### Experience

**Full-stack Engineer**  Columbia Basin Research

Incoming Part-time

• Built a responsive web application to help fishery researchers query data efficiently

**Full-stack Engineer**  Ocean Data Lab

• Designed and built a [website](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

Seattle, WA
June 2022 - Present

the ocean researchers to explore various hydrophone locations

• Automated build and deployment process using AWS Codepipeline, and deployed the website on **Amazon EC2**

**Full-stack Engineer**  Simoni Lab

• Won the Population Health Tier 1 Pilot Research Grant Award of $**23,000**

• 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

Seattle, WA

on medication using **React**, **Redux**, **MUI**

May 2022 - Present

• Implemented user authentification for the management website by using **Amazon Cognito**

**Product Management Intern**  XingSheng Youxuan Inc.

• Conducted a competitive analysis on how Xingsheng's competitors used sales promotion activities to attract new customers as well as retaining users

• Led a group of 4 UI designers and 8 product managers, conducted research activities in Hunan rural areas,

Hunan, China

collected users' feedback for XingSheng's mobile App, and summarized a series of improvement ideas for the

Aug 2020 - Mar 2021

application, such as adjusting the grocery recommendation mechanism to enable quicker merchandise search.

### Project

**Employeefind Website**  React, Node.js, MySQL

• 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

• Implemented User authentification with **JWT token**

• Created mocked **RESTFUL APIs** with Axios-mock-adapter and simulate the process of **CRUD**

June, 2021 - Present

operations on users' profiles