

# Dylan Liu

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## EDUCATION

### Oregon State University

Expected Graduation **Mar. 2027**

Bachelor of Science in Computer Science, Minor in Japanese – **(3.97 GPA)**

**Relevant Coursework:** *Object-Oriented Programming, Web Development, Analysis of Algorithms, Data Structures*

**Professional Societies:** *MECOP Student Advisory Board, OSU ACM Student Chapter, OSU SASE*

## TECHNICAL SKILLS

**Languages:** C/C++, HTML/CSS, JavaScript, LaTeX, TypeScript

**Frameworks:** Node.js, Vite, React, Express

**Developer Tools:** Git, VS Code, Visual Studio, Google Scripts, Jupyter Notebook

**Spoken Languages:** English, Mandarin Chinese, Japanese

## EXPERIENCE

### Software Developer

Sept. 2024 – Present

*Asha Hope Amanaki*

- Constructed a bill-splitting application using **JavaScript** and **Google Apps Script** to streamline expense management for nonprofit activities
- Designed and implemented a **user-centric interface**, ensuring ease of use and accessibility for all users
- Documented code and created user guides to facilitate smooth onboarding and usage by non-technical users

### Undergraduate Research Assistant

Apr. 2023 – Jun. 2024

*Oregon State University - EPICLab*

- Executed innovative research techniques to enhance efficiency and meet challenging deadlines
- Led a project** to design and deploy an **interactive and user-friendly** research website, utilizing **HTML** and **CSS** to maintain seamless functionality and aesthetic appeal
- Collaborated with research leaders, advisors, and professors across **5 distinct projects** to ensure alignment with academic standards and project objectives
- Contributed to **2 academic research papers**

## PROJECTS

### Spotify Harmonize | *Spotify Web API, Typescript, Vite, React, Node.js, HTML, CSS*

Jan. 2023 – Present

- Devised a **full-stack** web application using **Vite** with **React** as frontend, achieving a **30%** loading time reduction
- Deployed **Spotify OAuth** and **PKCE workflow** to enhance security and prevent authorization code interception
- Leveraged **React hooks** and state management techniques to optimize application state handling, resulting in a **20%** improvement in data flow efficiency

### Personal Website | *HTML, CSS, JavaScript, Git*

Jun. 2024 – Present

- Designed and engineered a personal website to showcase projects and skills, resulting in **100%** uptime since launch and a **25%** increase in page load speed through code optimization
- Integrated **responsive design** principles, ensuring seamless viewing across **1,000+** screen resolutions from mobile to desktop devices
- Utilized **Git** for version control and **GitHub Pages** for hosting, tracking over **50** commits
- Integrated **HTML**, **CSS**, and **JavaScript** to create dynamic and interactive user interfaces
- Optimized website performance** and loading speed through efficient coding practices and resource management, reducing script load times by **15%**

## PUBLICATIONS

### Debugging for Inclusivity in Online CS Courseware: Does it Work?

Aug. 2024

*ACM Conference on International Computing Education Research (ICER) 2024*

- Investigated using an Automated Inclusivity Detector (AID) tool to remove inclusivity biases in online CS courses

### The Triumphs and Trials of Generative AI in Learning Software Engineering

Apr. 2024

*ACM 46th International Conference on Software Engineering*

- Evaluated ChatGPT's effectiveness in assisting software engineering students via a between-subjects study (N=22)