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*

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
- Developed 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
- Implemented innovative research techniques to enhance efficiency and meet challenging deadlines
- **Led a project** to design and deploy an **interactive and user-friendly website** for the research team, utilizing **HTML** and **CSS** to ensure seamless functionality and aesthetic appeal
- Collaborated effectively 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
- Developed a **full-stack** web application using **Vite** with **React** as the frontend
- Implemented **Spotify OAuth** and **PKCE workflow** to enhance security and prevent authorization code interception
- Leveraged **React hooks** and state management techniques to efficiently manage application state and data flow within the frontend

EPICLab Research Website | *JavaScript, HTML, CSS, Git*   Sept. 2023 – Jan. 2024
- **Led a team of research assistants** and implemented a structured workflow utilizing Git
- Designed and implemented a visually engaging website inspired by its predecessor hosted entirely on **Git Pages**
- Designed and integrated **HTML**, **CSS**, and **JavaScript** to create responsive and intuitive user interfaces

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)