Dylan Liu

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Education

Oregon State University *Expected Graduation* **Mar. 2027**
Bachelor of Science in Computer Science, Minor in Japanese – ***(3.95 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)