Alan Liang

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Education

University of Wisconsin-Madison   2022 – Present
BS in Computer Science & Environmental Studies

- GPA: 3.955/4.0
- **Coursework:** Data Structures & Algorithms, Data Ethics, Machine Organization, Operating Systems, UI/UX, Neural Networks, Software Development, GIS, Geodatabases

Experience

Software Engineer Intern, Amazon – Sunnyvale, CA   May 2025 – Aug 2025

- Migrated an outdated service to a modern platform using **React**, **TypeScript**, and **Express**
- Cut monthly support tickets by **50%** by implementing new features to reduce manual workload
- Delivered a full-stack, end-to-end project from design to production in an agile environment
- Implemented comprehensive unit tests, **achieving 95%+ test coverage** to ensure code quality and stability
- Set up user metrics using AWS Cloudwatch to track adoption and identify bottlenecks

UI/UX Peer Mentor, University of Wisconsin-Madison – Madison, WI   Sep 2024 – May 2025

- Guided 500+ students to gain proficiency in HTML, CSS, Javascript, React, and React Native
- Assist students in setting up and deploying websites using Docker & SQLite
- Mentored peers in cybersecurity fundamentals to prevent XSS and SQL injection

Beach Ambassador Technology Intern, Wisconsin Sea Grant – Milwaukee, WI   Jun 2023 – Jun 2024

- Engaged with 500+ beachgoers at lakefront and citywide events to promote water safety awareness
- Developed the Beach Ambassador Resources Website using HTML, improving accessibility of program resources
- Advanced environmental justice initiatives by engaging underrepresented communities and addressing racial disparities in access to safe recreational spaces

Projects

GreenLens   Nov 2024

- Crafted a seamless UI for a trash vs recycling image detection app with React, framer-motion and Tailwind
- Trained an image recognition model using Resnet50 on CUDA GPU with 10,000+ images
- Used Flask to manage data communication between frontend and AI model

Custom UNIX Shell   Oct 2024

- Created a custom shell in C to support basic shell features such as fork, environment variables & history.
- Managed disk storage using RAID0 and RAID1 configurations

SpotLight   Aug 2024

- Developed an electronic press kit (EPK) networking app for musicians using React
- Awarded **2nd** place at Empower 2.0 Hackathon, on the SonicBids track
- Used a NoSQL database to store user information and support chatroom features between users

EmptyFridge   Mar 2023

- Awarded **1st** place at UW-Madison Hackathon for best Sustainability Hack
- Onboarded REST APIs to allow users to input a variety of 100,000 ingredients to query 5,000+ recipes.
- Upgraded static web app to React Native mobile app to reduce size by 99.4% and improve convenience

Skills

Programming Languages: Java, C, Javascript/Typescript, Python, R, SQL

Frontend: HTML, React, React Native, Bootstrap, Tailwind

Backend: Express.js, REST APIs, AWS Lambda, MongoDB, PostgreSQL, Node.js, Flask

Tools & Platforms: Git, GitHub, Jupyter Notebook