

Grace G. Liu

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EDUCATION

University of Michigan - Ann Arbor

Ann Arbor, MI

B.S. in Computer Science

June 2023

- **Relevant Coursework:** Data Structures and Algorithms, Database Management Systems, Web Systems, User Interface Development, Intro to Computer Security, and Mobile Application Development for Entrepreneurs

SKILLS

- **Languages:** C++/C, Python, Golang, SQL, JavaScript, HTML/CSS
- **Frameworks/Libraries:** React, Flask, Node.js
- **Technologies:** Linux, Git, Figma, VSCode, Docker, REST APIs, AWS EC2 Instances, MapReduce, Meditech

PROJECTS

Recipe Web App

MERN Stack

October – November 2023

- Developed an interactive React web application enabling users to explore, create, and save recipes utilizing React components, hooks, routing, and authentication.
- Implemented recipe creation functionality allowing users to securely add new recipes to the catalog, storing recipe details in a backend database using MongoDB.

Instagram Web Clone

Python (Flask), JavaScript, HTML/CSS, SQLite, React

September – October 2022

- Built a full-stack Instagram web clone with React frontend interacting via AJAX with Flask REST API backend; enabled dynamic UI features like infinite scroll and double-click to like.
- Developed Flask backend with CRUD operations for posts, comments, likes, and followers stored in SQLite databases; implemented user authentication, sessions, and designed normalized schemas for efficient queries.
- Deployed cloud-based infrastructure on AWS EC2 to scale application and manage uploads.

Projects++

Figma

October – December 2022

- Conducted 7 user interviews to uncover challenges students face exploring computer science careers; synthesized insights into proposing an app concept to showcase profession-specific projects.
- Led a 5-person team to design and develop a high-fidelity interactive prototype of career exploration app on Figma, emphasizing intuitive navigation and UX.
- Recognized among Top 10 projects out of 60+ for the novel solution and user-centric design.

WORK EXPERIENCE

UP Health System - Portage

Hancock, MI

IT User Access Specialist (Part-Time)

December 2023 – Present

- Manage user access for 1,000+ employees and contractors using ServiceNow; grant appropriate permissions across multiple applications while upholding data security protocols.
- Provided comprehensive IT onboarding to groups of new hires during bi-weekly orientation sessions; configured access credentials and permissions to key systems to enable productivity.

Michigan Technological University – Brain Inspired AI Lab

Houghton, MI

Research Assistant Intern

August 2023 – Present

- Leverage advanced deep learning techniques through close collaboration with a cross-functional research team to achieve project objectives, applying closed-loop DBS technology to optimize energy efficiency and reduce side effects.

University of Michigan

Ann Arbor, MI

Information Technology Assistant – School of Public Health

September 2022 – August 2023

- Contributed to building the faculty/staff section of the school website using Omni CMS, meticulously verifying the accuracy of data migration for a seamless transition.

Engineering Administration Computer Support – College of Engineering

May 2019 – August 2019

- Delivered comprehensive Level 2 IT support to a diverse user base of 100+ administrative staff and faculty within the College of Engineering, demonstrating expertise in troubleshooting hardware and software issues.