

Yu Xiao

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EDUCATION

University of Michigan, Ann Arbor MI

Bachelor of Science in Engineering in Computer Science

Graduating April 2024

GPA: 3.91/4.00

Coursework: Data Structures and Algorithms, Applied Computational Machine Learning, Introduction to Computer Organization, Discrete Mathematics, Technical Communication

SKILLS

Proficient: C++, Affinity Designer

Competent: HTML, CSS, JavaScript, Java, Git, Adobe Illustrator

Familiar: React, MATLAB, Julia

EXPERIENCE

Technical Course Projects

Log Entries Manager

October 2021 - November 2021

- Created log management system utilizing hash maps to perform sorting, appending, deleting, searching on log entries using object oriented programming in C++
- Implemented keyword search feature to efficiently filter entries by category and search words using hash map
- Designed custom functors to manage entries of log objects using STL functions
- Utilized test driven development and Makefiles to automate testing and running software

Air Quality Monitor

January 2021 - April 2021

- Collaborated with engineering team of 6 to prototype and develop air quality monitor using C++ and Arduino components
- Designed and adapted sensor software to identify and indicate 5 levels of air quality
- Communicated progress and design updates in weekly presentations to peers and supervisors

Forum Post Classifier

March 2021 - April 2021

- Constructed NLP machine learning program to classify 10,000+ online forum posts in C++ with 97% accuracy
- Implemented binary search tree as a map to store and access forum post category and content efficiently

Independent Front-end Development

Personal Website

November 2021 - Present

- Created multi-page personal portfolio website with mobile friendly design using React and CSS
- Constructed wireframes and mockups of interfaces to scope and design UI / UX using Affinity Designer

FreshTea Website

June 2020 - November 2021

- Developed responsive mock boba shop website with shopping cart and customer rating system using HTML, CSS, Javascript
- Built interactive menu with 8 drinks, 8 toppings, and ice, sugar, size options with clear, add to cart, and checkout functions

Graphic Design

Digital Artwork Freelancer

July 2016 - Present

- Designed and sold 25+ custom decks of playing cards utilizing Affinity Designer and Adobe Illustrator
- Created content for UM Asian Intersity as a Graphics Team Member to communicate events through social platforms
- Negotiated contracts with clients to create illustrations, logos, posters utilizing Affinity Designer and Adobe Illustrator

ACTIVITIES

Chinese Bible Church of Greater Lowell, Chelmsford MA

Lowell Youth Leadership Experience Member

June 2017 - March 2020

- Coordinated and led team meetings to create scheduling for 40+ children in Children's Ministry
- Cooperated with programming team of 5 to orchestrate social events for 50+ students to increase community engagement

Kamate Fitness, Concord MA

Head Parkour Coach

January 2018 - December 2018

- Coached 15+ after school students and cooperated with supervisors to design safe and engaging parkour training regimens
- Evaluated and communicated progress to improve student's mental and physical abilities