

Yu Xiao

978-888-8886 - txiaopk@gmail.com - Westford, MA 01886
https://github.com/ytxpk - linkedin.com/in/yuxiao8

EDUCATION

University of Michigan, Ann Arbor MI

Bachelor of Science in Engineering in Computer Science

April 2024

GPA: 3.96/4.00

Coursework: Data Structures and Algorithms, Applied Computational Machine Learning, Applied Linear Algebra, Discrete Mathematics, Introduction to Statistics and Probability

SKILLS

Languages: C++, MATLAB, HTML, CSS, JavaScript, Julia, Java

Applications: Github, Affinity Designer, Adobe Illustrator

Tools: Git

EXPERIENCE

Course Projects

Coding Projects

September 2020 - Present

- Implemented double-ended linked list as backend to read and write HTTP subset for office hours queue using object oriented programming in C++
- Created log management system utilizing hash maps to read in, store, append, sort, or search log entries using C++
- Developed a content aware image resizing program by implementing a seam carving algorithm using C++
- Utilized test driven development and Makefiles to automate testing and running software
- Collaborated with engineering team of 6 to prototype, develop software, and present air quality monitor using C++ and Arduino components

Machine Learning

September 2020 - Present

- Constructed binary search tree for NLP machine learning program to classify 10,000+ online forum posts in C++ with 97% accuracy
- Implemented k-means clusters machine learning algorithm to categorize 100+ automobile data points using C++ with visualization in MATLAB
- Optimized deep learning neural network architecture to classify 1,000+ handwritten digits with 96% accuracy in Julia

Independent Projects

Frontend Web Application Development

June 2020 - Present

- Developed responsive mock boba shop website with shopping cart and customer rating system using HTML, CSS, Javascript
- Built landing page for mock air delivery business featuring mobile responsiveness using HTML, CSS, JavaScript
- Constructed wireframes and mockups of interfaces to scope and design UI / UX

Graphic Design

Digital Artwork

July 2016 - Present

- Designed and sold 20+ custom decks of playing cards utilizing Affinity Designer and Adobe Illustrator
- Negotiated contracts with clients to create illustrations, logos, and posters as freelance and volunteer work utilizing Affinity Designer, Adobe Illustrator, and physical media

INVOLVEMENT

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 to safely practice parkour and maintain physical engagement
- Cooperated with supervisors and assistant to optimize training regimens
- Evaluated and communicated progress to improve student's mental and physical abilities

ACTIVITIES

Michigan Hackers: Web Development Member

September 2021 - Present

Asian Intersarsity: Graphics Team Member

September 2020 - Present