

Terrian Xiao

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EDUCATION

University of Michigan, Ann Arbor MI

Bachelor of Science in Engineering in Computer Science

Graduating April 2024

GPA: 3.89/4.00

Coursework: Data Structures and Algorithms, Web Systems, Compiler Construction, Discrete Mathematics, Technical Communication, Codepath Software Engineering

SKILLS

Languages: C/C++, Python, Javascript

Web: React, HTML, CSS, Flask, SQL

Tools: Git, Jira, Figma, Adobe Illustrator

WORK EXPERIENCE

MathWorks, Natick MA

Software Engineer Intern

May 2022 - August 2022

- Engineered dead code elimination compiler optimization to improve performance of generated MATLAB and Simulink code using C++
- Qualified compiler transform robustness and speed by conducting 20,000+ unit, integration, and system tests using automated testing frameworks
- Developed 85+ unit tests following test driven development practices to ensure code functionality
- Communicated progress in biweekly meetings in an agile software development environment methodology to align and review project updates using Jira

Graphic Design

Digital Artwork Freelancer

July 2016 - August 2022

- Designed and distributed 30+ custom decks of playing cards utilizing Adobe Illustrator
- Produced content for 50+ Asian Intervarsity members as a Graphics Team Member to communicate events through social platforms
- Negotiated contracts with clients to create illustrations, logos, posters utilizing Adobe Illustrator

PROJECTS

Technical Course Projects

Serverside Instagram Clone

September 2022

- Created serverside dynamic instagram clone using Python Flask backend and SQL database to serve templated HTML login, feed, accounts, posts, and users pages
- Implemented interactive account creation, following, liking, and commenting features to enhance user experience
- Composed bash scripts to automate testing, SQL database management, and local server hosting
- Collaborated with software engineering team of 3 utilizing Git version control

Air Quality Monitor

March 2021

- Coordinated with engineering team of 6 to prototype and develop 5 level air quality monitor using C++ and hardware components
- Communicated progress and design updates in weekly presentations to peers and supervisors

Front End Development

Portfolio Website

November 2021 - July 2022

- Created 4 page responsive personal portfolio website with mobile friendly design using React, HTML, CSS
- Constructed wireframes and mockups of interfaces to scope and design user interfaces using Figma
- Developed 10 reusable components to streamline development process using React
- Enhanced performance, accessibility, best practices, and search engine optimization to achieve 90-100 on Google Lighthouse benchmark tests