

Terrian Xiao

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EDUCATION

University of Michigan, Ann Arbor MI

Bachelor of Engineering in Computer Science

Graduating April 2024

GPA: 3.84/4.00

Coursework: Data Structures and Algorithms, Web Systems, Web Design, Operating Systems

SKILLS

Backend: C++, Python, Flask, Node.js, SQL

Frontend: React.js, Vue.js, HTML, CSS, Javascript

Tools: Git, Jira, Docker, AWS, Figma

WORK EXPERIENCE

Genentech, South San Francisco CA

Fullstack Software Engineer Intern

May 2023 - August 2023

- Implemented document management dashboard user interface enhancements using Vue.js and CSS
- Constructed REST API analytics to log, debug, and monitor client / server requests using Node.js
- Improved user workflows by reducing document search and author time by up to 63%
- Designed UI / UX mockups with Figma to align with customer feedback and requirements
- Utilized CI / CD practices to streamline software deployment with Git, Docker, and AWS

MathWorks, Natick MA

Compiler Software Engineer Intern

May 2022 - August 2022

- Engineered dead code elimination compiler optimization to enhance performance of generated MATLAB code using C++
- Qualified compiler robustness by developing 85+ unit, integration, and system tests utilizing test driven development and automated testing frameworks
- Communicated technical decisions and impact through presentations to stakeholders
- Collaborated with agile development focused software engineering team using Jira

Freelance, Remote

Graphic Designer

July 2016 - August 2022

- Negotiated contracts with clients to create products based on updating specifications, maintaining flexibility and clear communication
- Led 5 person team for graphic design initiative for community conference with 50+ participants

PROJECTS

Technical Projects

Network File Server

March 2023 - April 2023

- Architected multi-threaded network file system for users to store, write, and read files using C++
- Leveraged mutexes, locks, and web sockets for concurrent request processing to improve performance
- Produced 20+ testing suites for 100% code coverage, ensuring server reliability using Python and C++

Distributed Search Engine

November 2022 - December 2022

- Implemented scalable fullstack React.js, Flask, and SQL web based search engine using service oriented architecture, asynchronous programming, and parallel computing
- Developed distributed map reduce pipeline to efficiently index web document database using Python
- Built index and search servers to concurrently serve HTTPS requests through backend API

Frontend Development

Portfolio Website

November 2021 - July 2022

- Created 4 page responsive website with mobile friendly design using React.js, HTML, and CSS
- Constructed wireframes and mockups of interfaces to scope and design user interfaces utilizing Figma