Jeffrey Tian

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EDUCATION

University of Michigan, Ann Arbor, MI
Bachelor of Science in Engineering, Computer Science — May 2022
GPA: 3.872/4.0

Relevant Coursework: Data Structures and Algorithms, Web Systems, Operating Systems, Artificial Intelligence, Machine Learning, User Interface Development, Computer Security, Computer Organization, Foundations of Computer Science, Linear Algebra, Discrete Mathematics

Skills: Python, C++, Java, React, Javascript, Typescript, C, HTML, SQL, CSS, Git

WORK EXPERIENCE

Amazon, Seattle, WA
Software Development Engineer Intern — May 2021 – July 2021

- Owned 10-week project under Physical Stores organization, creating Onebox software and infrastructure to test changes to static assets and features for over 500 stores worldwide
- Updated backend process handled by AWS Lambda to redirect a variable percentage of web requests to Onebox for testing and evaluation
- Built extensive metrics package using Python for the whole organization's usage and designed 50+ unit tests to verify Onebox redirection
- Presented final demo to 20 stakeholders in the org to introduce new concepts/changes in the project

TECHNICAL PROJECTS

University of Michigan, EECS 482: Operating Systems, Ann Arbor, MI
Thread Library Project — September 2021 - October 2021

- Replicated C++'s std::thread library on a uniprocessor system by designing the creation and swapping of threads and implementing the required functions for threads (yield, join), mutexes (lock, unlock), and condition variables (wait, signal, broadcast) to work
- Provided support for timer and processor interrupts by specifying the enabling and disabling of interrupts in the thread library functions

University of Michigan, EECS 370: Computer Organization, Ann Arbor, MI
LRU Cache Simulator Project — November 2020 - December 2020

- Developed an assembly language pipeline processor with a set-associative LRU cache designed to hold a user-specified number of sets, blocks per set, and block size; decipher assembly instructions to alter register and memory values; and handle data and control hazards

University of Michigan, EECS 485: Web Systems, Ann Arbor, MI
Insta485 Project — September 2020 - October 2020

- Created Insta485, a full-stack web application replicating Instagram, by combining knowledge of server-side (Python, Flask, SQL, REST APIs) and client-side (Javascript, React) dynamic pages to implement basic functions such as login, like, comment, post, and follow, along with more advanced functions such as double click to like and infinite scroll

Michigan Mars Rover Team, Ann Arbor, MI
Computer Vision Team Member — September 2019 – May 2020

- Implemented AR tag detection algorithm in C++ to process camera input and detect AR tags
- Collaborated on obstacle detection/avoidance algorithm to search surroundings and determine if there exists a clear path for the rover to travel

ADDITIONAL

Extracurriculars: Club Swimming, Circle K Volunteering, IM Basketball, Chinese Student Association, Poker Club
Languages: English, Chinese, Spanish
Interests: Reselling Sneakers, R&B/Indie Music, Basketball, Baseball, Hiking, Rock Climbing, Star Wars