Matthew Pham

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Education

Bachelors of Science in Software Engineering Expected: May 2024
The University of Texas at Dallas Richardson, TX

- **Relevant Coursework:** Data Structures and Algorithm Analysis, Systems Programming in UNIX/Linux, Computer Networks, Software Engineering, Operating Systems Concepts, Probability and Statistics

Technical Skills

Languages/Frameworks: Python, C, C++, React, React Native, HTML, CSS, JavaScript, Tailwind, Dart, Flutter
Development Tools: Git, Linux, UNIX, Node, Redux, Vite, Figma, Expo

Projects

Tex2 (HackDFW**)** - *React Native, Expo, Figma* September 2022

- Created an e-commerce mobile app intended to save around 6.75kg of carbon emission per t-shirt sale
- Implemented UI for user to utilize AI to generate 5+ clothing designs
- Imported 2+ phone images with Expo SDK in order to produce AI-created designs of old clothing

Quiz Generator - *React, JavaScript, HTML, CSS* August 2022

- Designed 4+ functional components by applying useState hooks to display quiz UI and track score
- Fetched and processed Open Trivia Database's API to map data for 5 quiz questions at a time

TCP Server-Client Implementation - *C, UNIX* May 2022

- Implemented 3-way handshake process for server-client connection with 2 WebSockets each
- Stored database records in a text file which allowed for processing of 100s of client requests to the server simultaneously through use of multi-threading

Multi-Threaded Hash Tree - *C, UNIX* April 2022

- Developed a C program that computes 32-bit hash values for a given file using the Jenkins's one_at_a_time hash function
- Studied and analyzed optimal thread count for hashing files ranging from 256MB to 4GB in size
- Increased hash processing speeds by up to 21 times faster by implementing a multi-threaded binary tree, which allowed for parallel hashing through 1024 threads simultaneously

Home Oversight (HackUTD, StateFarm Challenge**)** - *Flutter, Dart* November 2021

- Achieved 2nd place against 31 other teams by developing a mobile app that tracks wildfires, providing users with a method of safely exiting the area in case of an emergency
- Deployed the mobile app UI with pop-ups, a navigation bar, and a GUI intended to display NVIDIA AI wildfire prediction data onto a Google map interface

Work Experience

Contracted Event Organizer - Liquid Dogs June 2022 - August 2022

- Assembled equipment for eSports events which have reached peak viewer counts of 430,537 viewers
- Supervised competitive integrity of 4+ teams and assisted in troubleshooting technical PC issues

Cashier - Schlotzsky's August 2019 - March 2020

- Assembled 50–75 food orders per hour in a fast-paced working environment
- Collaborated with 4-10 crew members at a time to handle customer orders in a timely manner