Dallas, TX 75205

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Alfred Koo

My Portfolio Website:
akoo1/portfolio-website/
GitHub: github.com/akoo1
LinkedIn: linkedin.com/in/akoo1

OBJECTIVE

Seeking an **internship for 2021** to further my knowledge of web/software development

EDUCATION

Southern Methodist University, Dallas, TX   Expected Graduation Year: 2022

- Bachelor's Degree in **Computer Science | GPA: 3.85**
- Honors & Awards: Transfer Honor Scholarship, Thomas Lucius Down's Scholarship

Relevant Coursework: Principles of Computer Science I & II, Data Structures, Algorithms, Graphical User Interface, Programming Languages, Assembly Language & Machine Organization, Digital History with Data Science, Intro to Engineering Design, Discrete Math, Linear Algebra

TECHNICAL AND LANGUAGE SKILLS

Programming Languages: JavaScript (ES6+), HTML5, CSS3/Sass, Python, Java, C++, MySQL, SQLite

Frameworks & Tools: React JS, Redux, Node JS, Flask, Bootstrap, JSON, Git, Heroku, Agile Scrum

PROJECT EXPERIENCE

Pony List   September 2020 - November 2020

- Led a front-end team of 3 and collaborated with a back-end team of 2 using **Agile Scrum** to build a marketplace website connecting SMU students to buy or sell new and used items with live messaging feature using **React JS, Node JS, Express JS, and MySQL**

Burger Builder   December 2020

- Built a dynamic React web application that lets users build and customize a burger and also create an account, login, and check out their orders using **React JS, Redux, Node JS**

Personal Portfolio Website   August 2020

- Built a website that provides information about myself and showcases my top skills and programming projects using **HTML**, **Sass**, and **JavaScript** that is responsive and mobile-friendly

Algorithm Analyzer   October 2020

- Wrote an algorithm class that utilizes **strategy design pattern** and **composition strategy** in **C++** to perform various sorting (Bubble, Insertion, Merge) and searching algorithms (DFS, BFS, Dijkstra, A*)

COVID-19 Open Research Dataset Challenge (CORD-19)   April 2020

- Built a search engine in **C++** by building an inverted file index for a corpus of 50K JSON COVID-19 scholarly articles that uses 'term frequency - inverse document frequency' relevancy ranking scheme for results

WORK EXPERIENCE

Collin College - Admissions & Academic Advising   Plano, TX (March 2018 – May 2019)

Student Assistant

- Managed, sorted and processed confidential student documents in Collin College's online database
- Trained 3 student assistants and 1 intern on Banner 9 software and other general office responsibilities