Shaoxiong Shen

Graduating in May 2022

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A college rising senior whose fluent on algorithms, data structures, and object-oriented programming. Looking for internships to familiarize the industry work thus gain experience from projects

EDUCATION

Computer Science
University of Maryland College Park

09/2018 - 05/2022   *GPA: 3.6*

Courses

- Objected-Oriented Programming
- Data-Analysis
- Data-Structures
- Algorithms Design

WORK EXPERIENCE

Teacher Assistant at Computer Systems
UMCP Computer Science Department

09/2020 - 05/2021

Achievements/Tasks

- Proctored exams and graded worksheets, quizzes, exams, and projects
- Held office hours to help any course-related questions/projects from 500 students in the class
- Weekly meetings to discuss students performance, course development, and material modifications

Teacher Assistant at Object-Oriented Programming
UMCP Computer Science Department

09/2019 - 05/2020

Achievements/Tasks

- Held scheduled discussion sections twice a week teaching 35 students lecture material
- Held office hours to help any course-related questions/projects from 300 students in the class
- Weekly meetings to discuss students performance, course development, and material modifications

Research Assistant Internship
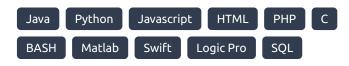Morgan State University Department of Computer Science

06/2021 - 08/2021   *Baltimore, MD*

Achievements/Tasks

- Conducting research "using machine learning to identify and predict cyber threats"
- Enhancing programming skills, problem solving, and workforce readiness
- Strengthening computer network, machine learning, and cybersecurity knowledge and skills

SKILLS

Java   Python   Javascript   HTML   PHP   C
BASH   Matlab   Swift   Logic Pro   SQL

INDEPENDENT PROJECTS

Efficient TSP Heuristics (Java) (04/2021)

- Combined an extended AA tree and wrapped kd-tree data structures to implement a data structure for maintaining traveling salesperson (TSP) tours.
- Developed algorithm to allow user find the best optimal routine for the travel route.

Block Relations Database Systems (Python) (03/2021)

- Developed blocks following disk-relations algorithm to simulate the functionality of database systems.
- Implemented B+- tree to distribute better runtimes.

The United States Election Analysis (Python, SQL) (02/2021)

- Developed several query to list and analyze the elections from the database of all senator/president elections since 1788 in the United States.

Tik Tok Stimulator (Swift) (04/2020)

- Enabled interactions between users to upload videos and giving views/likes, then calculated the views/likes to sort trending videos as recommended videos to users
- Used FireBase to store data and user groups

2048 (Swift) (03/2020)

- Developed tile buttons as each of the number blocks which allows user to merge/move the blocks by swipe in directions on their touch screen.
- The rules of the game from popular game "2048" is implemented such as calculating the total score.

Submit Server (Java) (03/2019)

- Developed submit server using object-oriented and thread techniques to stimulate the project submission server created by UMD faculties which calculated the performance for students' projects

LANGUAGES

English
Native or Bilingual Proficiency

Chinese
Native or Bilingual Proficiency

EXTRA INTERESTS

Music writing/production