HONGKUN ZENG

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Skills

PROGRAMMING

Java
C++
C
x86 Assembly
HTML
CSS

FOUNDATIONAL

Teamwork
Critical Thinking
Problem-Solving

Education

University of Illinois at Urbana-Champaign   Aug. 2020 to May 2024
Bachelor of Science in Computer Engineering 2024
GPA: 3.91/4.00

Relevant Courses: Data Structures, Computer Systems Engineering, Applied Parallel Programming, Digital Systems Laboratory, Analog Signal Processing

Experience

IBM Accelerate Program Participant

June 2022 to Aug. 2022

- Participated in an 8-week professional development program with 2 weekly sessions focused on foundational business acumen and software industry skills
- Developed frontend and backend skills during weekly software sessions with IBM professionals

DPI Research Scholars- AI-Aided Co-Creation Platform

Jan. 2022 to May 2022

- Applied FFT(Fast Fourier Transform) to implement an algorithm that compares and sorts power spectral densities of different audio files
- Computed similarity between different audio files by applying human judgment and PSD computational algorithm to music samples

PHYS 212 Lab Assistant

Aug. 2021 to Dec. 2021

- Directed students to helpful resources for answering questions where appropriate
- Troubleshot interfacing snafus(IOLab communication with software)

Projects

YouTube Video Dataset Analysis(C++, Graph)   Mar. 2022 to May 2022
- Developed a data read in/out algorithm for YouTube datasets of 50,000 videos
- Implemented a graph class and stored data in an adjacency list
- Performed data analysis using BFS Traversal to find the shortest path from a source video a to a targeted video b

CodePath Android Todo App (Java, Android Studio)   Winter 2021
- Used RecyclerView to display a list of items
- Applied Notification methods to notify users that items are being added or removed from the todo list
- Used file handling to make the user's list of items persist upon modification

Volunteering

Pui Tak Christian School   Summer 2017
- Tutored pre-school students in Algebra, Geometry, English Grammar and Writing
- Guided preschool students in taking notes and preparing for exams

Membership And Associations

WECE Webdev Team   Nov. 2022 to Current
- Improved UI/UX design of WECE websites using HTML and CSS