

# HONGKUN ZENG

## Education

**University of Illinois at Urbana-Champaign**  
Bachelor of Science in Computer Engineering 2024  
GPA: 3.91/4.00

Aug. 2020 to May 2024

## Relevant Coursework

- Computer Systems Engineering
- Applied Parallel Programming
- Computer Systems & Programming
- Data Structures

## 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

- Computed similarity between different audio files by comparing their power spectral density
- Evaluated the accuracy of the PSD algorithm 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
- Troubleshoot interfacing snafus(IOLab communication with software)

## Projects

**Data Structure Final Project(C++, Graph)** Mar. 2022 to May 2022

- Implemented a graph class and used graph algorithms to analyze a YouTube dataset in a group of three
- Used BFS Traversal to find the shortest path from a source video a to a targeted video b
- Implemented the Highly Connected Subgraph Clustering(Karger's algorithm) to rank video categories based on their connectivities to other categories
- Used the PageRank algorithm to rank categories by order of importance

**CodePath Android Todo App (Java, Android Studio)** Winter 2021

- Used RecyclerView to display a list of items
- Implemented 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

## Contact

✉ [hzeng21@illinois.edu](mailto:hzeng21@illinois.edu)

☎ 312-885-0890

in [linkedin.com/in/hongkun-zeng-2a6065225](https://www.linkedin.com/in/hongkun-zeng-2a6065225)

🔗 <https://github.com/312hzeng>

## Skills

### FRONTEND

CSS

HTML

### BACKEND

Java

C++

C

### FOUNDATIONAL

Teamwork

Critical Thinking

Problem-Solving