

Education

University of Wisconsin – Madison: PhD Computer Science

August 2020 - Present

Drury University: B.S. Computer Science

Graduated 2020

Minor: Mathematics | GPA: 3.99

Experience

Teacher's Assistant: CS200

August 2020 - Present

University of Wisconsin – Madison

NSF Research Experience for Undergraduates

May 2019 – August 2019

University of Missouri

- Created and deployed system for collection of video depth data from subject's home
- Adapted action recognition machine learning algorithm to train on newly collected data
- Wrote machine learning, data collection, and data processing code in Python (PyTorch) and C++
- Presenting author of resulting paper at IEEE BIBM 2019

Software Intern

May 2018 – August 2018

Cerner

- Created user interface for new preventative medicine product which interacts with existing API
- Automated deployment of new product with Docker and Jenkins, integrated automated build trigger with GitHub to test new commits and deploy on merge to master
- *Technology stack*: React, Rails, Docker, Jenkins

IT Intern

May 2017 – May 2020

Premier Home Health Care

Publications

Moore Z, **Sifferman C**, Tullis S, Ma M, Proffitt R, Skubic M. Depth Sensor-Based In-Home Daily Activity Recognition and Assessment System for Stroke Rehabilitation. IEEE International Conference on Bioinformatics and Biomedicine. 2019.

Projects

Room Size Estimation from Panoramic Images using a Convolutional Neural Network

- Developed machine learning model and accompanying mobile application to estimate the floor space of a room from a panoramic RGB image
- *Technology stack*: Flutter, Node, SQL, AWS EC2

Deep Learning Research Group

- Created machine learning models and curriculum for computer vision, natural language processing, and mathematical foundations of neural networks