CARTER SIFFERMAN

Madison, WI | 417-234-1832 | sifferman@wisc.edu

EDUCATION

BEGAN AUGUST 2020
PHD IN COMPUTER SCIENCES
UNIVERSITY OF WISCONSIN - MADISON

GRADUATED MAY 2020
BACHELOR OF SCIENCE IN COMPUTER SCIENCE: SOFTWARE ENGINEERING
DRURY UNIVERSITY – SPRINGFIELD, MISSOURI
MINOR: MATHEMATICS
GPA: 3.99

GRADUATED MAY 2016
KICKAPOO HIGH SCHOOL – SPRINGFIELD, MISSOURI

ACADEMIC EXPERIENCE

FALL SEMESTER 2020
TEACHING ASSISTANT FOR CS200: PROGRAMMING I
UNIVERSITY OF WISCONSIN - MADISON

SUMMER 2019
NSF RESEARCH EXPERIENCE FOR UNDERGRADUATES
UNIVERSITY OF MISSOURI - COLUMBIA

- Created system that automatically recognizes and assesses the actions of stroke patients from continuous depth and joint data video
- Wrote machine learning, data collection and data processing code in Python and C++
- Presented findings in paper at IEEE BIBM 2019

AUGUST 2019 – MAY 2020
DEEP LEARNING RESEARCH GROUP, DRURY UNIVERSITY

- Researched computer vision, textual analysis, and mathematical concepts of neural networks. Created machine learning models with Python and PyTorch

AUGUST 2019 – MAY 2020
SENIOR CAPSTONE PROJECT, DRURY UNIVERSITY

- Designed and developed mobile application in Dart and Node.js
- Developed machine learning model and accompanying mobile application to estimate floor space of rooms from RGB images

INDUSTRY EXPERIENCE

SUMMER 2018
SOFTWARE INTERN, CERNER – KANSAS CITY, MISSOURI
- Wrote production code and documentation in professional development environment
- Worked on front-end and API code in JavaScript and Ruby on Rails

MAY 2017 – MAY 2020
IT INTERN, PREMIER HOME HEALTH CARE – SPRINGFIELD, MISSOURI

HONORS AND AWARDS

- Award for Outstanding Freshman in Computer Science (2017)
- Judge Warren White Scholarship recipient for 4.0 GPA in first year (2017)
- Member of Alpha Lambda Delta, Phi Kappa Phi, Kappa Mu Epsilon Honor Societies

INVOLVEMENT

- **Intercollegiate Programming Contest (2017, 2018)**: One of nine Drury students selected to compete in International Collegiate Programming Contest
- **Freshman Orientation Leader (2017, 2018, 2019)**: Selected to represent Drury by helping freshmen through their first weekend on campus
- **Private Tutor for Discrete Math and Data Structures (2019)**
- **Member of Drury Student Union Board (2016-Present)**
- **Volunteer at Discovery Center of Springfield (2019)**: Helped with STEM demonstrations and camps for elementary and middle school students

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.

PRESENTATIONS

Sifferman C, Bushman G. *SQFT: An Application for Room Size Estimates Using Machine Learning.* CCSC Central Plains Region Conference. April 2020.

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. November 2019.

Sifferman C. *Using Machine Learning to Assess Stroke Patient Recovery.* Missouri State University MAKO Undergraduate Mathematics Research Conference. November 2019.