

Alexander Roy

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Permanent Location:
Nashville, TN

Education

University of Mississippi
School of Engineering
B.S. Computer Science
Minor in Mathematics
GPA: 3.59 CS GPA: 3.93
August 2015 - Present
Graduation: May 2019

Courses

Digital Image Processing, Data Science, Data Structures and Algorithms, Database Systems, Linear Algebra

Skills

Java
Python
JavaScript / p5
HTML / CSS

Activities

Phi Kappa Psi Fraternity
Social Committee Co-Chair
Managed a \$60,000 budget
Executive Understudy
Liaison to University
House Corp Liaison
Rush Committee Captain

Association for Computing Machinery

UM Robotics Club

Ole Miss Big Event

Work Experience

Research Assistant
Heterogeneous Systems Research (HEROES) Laboratory
October 2017 - Present

Currently researching all proposed BFS implementations on GPUs to find the best possible application for optimal graph traversals.

Teaching Assistant
University of Mississippi Computer Science Department
January 2018 - Present

Teaching lab to freshman and sophomore computer science students and tutoring them on a weekly basis.

Projects

Cellular Automata

Interactive Web Graphic

Implementation of a cellular automata created with the p5 library for JS. The application allows the user to choose what simulation they would like to see generated by the mathematical model.

Activity Tracker

Image Analysis of UM campus (WIP)

Currently I am working on creating a python script that finds the busiest times for different food locations on campus.

This is done by analyzing each image the campus cameras capture in 5 second intervals at the food locations.

www.alexanderroy.me

Portfolio Website

Using JavaScript, HTML, and CSS I created a personal portfolio website that works across multiple devices.

Links to all projects can be found at alexanderroy.me/projects