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

Software Development Engineer Intern
Amazon
May 2018 – Present
- Advertising Platform

Research Assistant
Heterogeneous Systems Research (HEROES) Laboratory
October 2017 – May 2018
- Researched 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 – May 2018
- 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