

# Alexander Roy

alexander.roy96@gmail.com  
linkedin.com/in/avgroy  
github.com/avgroy

Permanent Location:  
Nashville, TN  
Cell: 615-512-2880

---

## Education

University of Mississippi  
School of Engineering  
B.S. Computer Science  
Minor in Mathematics  
GPA: 3.66 CS GPA: 3.97  
August 2015 - Present  
Graduation: May 2019

## Courses

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

## Skills and Tools

Java, JavaScript, Python,  
HTML/CSS, PHP, Django, AWS,  
SQL, GIT

## 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

University of Mississippi  
Department of Outreach  
Assisted with engineering and  
computer science camps

Association for Computing  
Machinery

UM Robotics Club

Ole Miss Big Event

## Work Experience

### Amazon

SDE Intern • Advertising Engineering and Development  
May 2018 – August 2018

Working on the Advertising Public API I created a serverless solution for asset management from the ground up. Using native AWS technologies, I created a service that handles fast file uploads with low latency and high throughput.

### University of Mississippi

Research Assistant • HEROES Laboratory

October 2017 – May 2018

Conducted extensive literary review on BFS implementations for GPUs to find the best possible application for optimal graph traversals

### University of Mississippi

Teaching Assistant • Computer Science Department

January 2018 – May 2018

Taught lab to freshman and sophomore computer science students and tutored 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 working on a python script that finds the busiest times for different food locations on campus

### 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](http://alexanderroy.me/projects)