

# MacVincent Agha-Okro

SOFTWARE ENGINEER · COMPUTER ENGINEERING MAJOR · CLAFLIN UNIVERSITY

☎ (+1) 704-858-7319 | ✉ amacvincent@claflin.edu | 🏠 macvincent.com | 📱 macvincent | 🌐 amacvincent

## Education

### Claflin University

Orangeburg, South Carolina

CANDIDATE FOR A BACHELOR OF SCIENCE DEGREE IN COMPUTER ENGINEERING

Class of 2022

- Presidential Scholar, The Alice Tisdale Honors College
- **GPA:** 4.0/4.0
- **Relevant Coursework:** Algorithms and Data Structures, Principles of Management, Digital Logic Design, Introduction to Object Oriented Programming, Discrete Mathematics, Computer Organization and Architecture, Honors Leadership

## Relevant Experience

### National Society of Black Engineers

Orangeburg, South Carolina

COMMUNITY SERVICE CHAIR

October 2019 - present

- Organize programs that aim to solidify the CS foundation of students in the Claflin community
- Working with NSBE Jr. chapters to start up programs that will help solidify the STEM and CS backgrounds of their students

JAVA TUTOR

January 2019 - March 2019

- Tutored students weekly on the fundamentals of programming in Java
- Aided students' comprehension of basic CS concepts covered in their Intro to Java class

### Claflin University

Orangeburg, South Carolina

WRITING CONSULTANT

August 2019 - Present

- Work with student writers and their papers
- Help students understand how to structure, organize, and develop well-written documents

TUTOR COUNSELOR - MATH

June 2019 - July 2019

- Worked with Grade 10 - 12 High School students around the Orangeburg County area
- Provided personal guidance, mentorship, and support to a group of 5 students
- Assisted the Math teacher with general Math instruction

### HBCU Battle of the Brains

Austin, Texas

TEAM MEMBER

March 2019

- Worked with other team members in analyzing case studies that described the diversity problems in the NFL
- Developed a business and technical proposal aimed at reducing the effect of implicit bias in the coach selection process

### Clemson University Hackathon (CUhackit)

Clemson, South Carolina

PARTICIPANT

January 2019

- Worked with a team of three in developing an application that teaches CS to students in third world countries
- Responsible for developing a web interface for the application

### Institute of Electrical and Electronics Engineers

Owerri, Nigeria

PUBLIC RELATIONS OFFICER

March 2017 - April 2018

- Successfully led the planning committee for the 2017 Student Professional Awareness Conference (SPAC)
- Aided with C++, Arduino Micro-Controllers and Web Development instruction
- In charge of recruiting efforts that led to an increase in membership

## Software Projects

### NewsRoom (<https://newsroom22.herokuapp.com>)

August 2019

- Designed and developed a Django-based web app that allows users to analyze the latest news stories
- The goal of the app is to combat disinformation by crowd-sourcing news analysis to verified users based on their expertise

### City Planner (<https://github.com/macvincent/City-Planner>)

June 2019

- Programmed a multi-threaded traffic simulation showing vehicular movement in a real-world city
- Rendered a 2D model of the simulation by making use of the OpenCV library

### Interactive System-Monitor (<https://github.com/macvincent/CppND-System-Monitor>)

June 2019

- Developed a program that displays information about memory and CPU utilization in a Linux System
- Created the interactive display of running processes using a multithreaded application of the ncurses library

### Route Planner App (<https://github.com/macvincent/CppND-Route-Planning-Project>)

May 2019

- Used the IO2D library to render a 2D model of a real-world map, showing the shortest route between two points
- Found the shortest route by making use of the A\* pathfinding algorithm

## Skills and Interests

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- **Programming Languages:** C++, Java, Python, HTML/CSS/JavaScript
- **Libraries and Frameworks** Django, jQuery, IO2D, ncurses, OpenCV
- **Tools:** Git, Heroku, Cmake, Arduino
- **Interests:** Robotics, Internet of Things, Music, Business, Politics

## Honors & Awards

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2018	<b>Semester of Excellence for Fall 2018</b> , Claflin University Honors and Awards Convocation	<i>Orangeburg, SC</i>
2019	<b>Second Place</b> , National Society of Blacks in Computing (NSBC) Capture the Flag Competition	<i>Atlanta, GA</i>
2019	<b>Second Place</b> , Claflin University Annual Business Plan Competition	<i>Orangeburg, SC</i>
2016	<b>Best Graduating Student</b> , Federal Government Boys College	<i>Abuja, Nigeria</i>
2015	<b>Best Delegate United Nations Office on Drug and Crime (UNODC)</b> , Nigerian Model United Nations Society	<i>Abuja, Nigeria</i>