

# MacVincent Agha-Okó

SOFTWARE ENGINEER · COMPUTER ENGINEERING MAJOR · CLAFLIN UNIVERSITY

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## Skills and Interests

- **Programming Languages:** C++, Java, Python, Git, HTML/CSS/JavaScript
- **Tools:** Git, Heroku, Cmake, Arduino
- **Interests:** Robotics, IoT, Music, Reading, Politics

## Software Projects

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

June 2019

- Programmed a multi-threaded traffic simulation showing vehicular movement in a real-world city
- Visualized a 2D model of the simulation by making use of the OpenCV library
- Utilized: OpenCV, Multi-Threading

### 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
- The Program also displays an interactive list of running processes and their respective uptimes
- Created the interactive display using a multithreaded application of the ncurses library
- Utilized: Multi-Threading, ncurses library

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

May 2019

- Designed a program that allows users to find the shortest distance between two points in a real-world map
- Used the A\* pathfinding algorithm to find the shortest path between node points
- Visualized a 2D model of the map and shortest route using the IO2D library
- Utilized: OpenStreetMap data, IO2D library

## Relevant Experience

### Claflin University Upward Bound Program

Orangeburg, South Carolina

TUTOR COUNSELOR – MATH

June 2019 - July 2019

- Worked with Grade 10 - 12 High School students around the Orangeburg County area
- Worked towards helping them develop an attitude of high expectations regarding college preparation and readiness
- Provided personal guidance, mentorship, and support to a group of 5 students
- Assisted the Math teacher with general Math instruction

### National Society of Black Engineers

Orangeburg, South Carolina

JAVA TUTOR

January 2019 - March 2019

- Took fellow students on weekly classes focused on the fundamentals of programming in Java
- Aided in their comprehension of basic CS concepts covered in their intro to Java class

### 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 a massive increase in membership

## Honors & Awards

2019	<b>Second Place</b> , Claflin University Annual Business Plan Competition	SC, U.S.A
2018	<b>Semester of Excellence for Fall 2018</b> , Claflin University Honors and Awards Convocation	SC, U.S.A
2016	<b>Best Graduating Student</b> , Federal Government Boys College	Abuja, Nigeria
2015	<b>Best Delegate United Nations Office on Drug and Crime (UNODC)</b> , Nigerian Model United Nations Society	Abuja, Nigeria

## 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:** Introduction to Object Oriented Programming, Digital Logic Design, Discrete Mathematics, Differential Calculus, Introduction to Programming (Java)