MacVincent **Agha-Oko**

SOFTWARE ENGINEER · COMPUTER ENGINEERING MAJOR · CLAFLIN UNIVERSITY

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Skills and Interests

- **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, Reading, Politics

Education

Claflin University   *Orangeburg, South Carolina*

CANDIDATE FOR A BACHELOR OF SCIENCE DEGREE IN COMPUTER ENGINEERING   *Class 0f 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), Algorithms and Data Structures, Computer Organization and Architecture

Software Projects

NewsRoom (https://newsroom22.herokuapp.com)   *August 2019*

- Designed and developed a Django-based web app that allow users 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

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
- 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 an increase in membership

Honors & Awards

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