# MacVincent **Agha-Oko**

Software Engineer · Computer Engineering Major · Claflin University

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## 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

## Skills and Interests

- **Programming Languages:** C++, Python, Go, HTML/CSS/JavaScript
- **Libraries and Frameworks** Django, jQuery, TensorFlow, Numpy, OpenCV
- **Tools:** Git, Heroku, Cmake, Arduino
- **Interests:** Autonomous Vehicles, Internet of Things, Music, Business, Politics

## Relevant Experience

**Lyft** — *Orangeburg, South Carolina*

Software Engineering Intern - Deploys Team — *June 2020 - Present*

- Worked on internal tooling to improve how Kubernetes clusters are targeted by Lyft services at each deployment step
- Developed functionality to automatically batch, after an incident, the continuous deployment of backlogged commits made to a runtime configuration repository
- Made UI changes to help developers monitor the progress of commits made to that runtime configuration repository

**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

## Software Projects

**Extended Kalman Filter (https://github.com/macvincent/Extended-Kalman-Filter)** — *March 2020*

- Implemented an extended Kalman filter to estimate the state of a moving object with noisy lidar and radar measurements
- Generated readings with a higher degree of certainty and a lower root-mean-square error value

**Traffic Sign Classifier (https://github.com/macvincent/Traffic_Sign_Classifier)** — *February 2020*

- Demonstrated how CNNs (Convolutional Neural Networks) can be applied in classification problems
- Applied transfer learning in increasing the accuracy and development of the network

**Lane Finder (https://github.com/macvincent/Advanced_Lane_Line_Finding)** — *February 2020*

- Developed a pipeline that takes in image frames of a moving vehicle and identifies the car's lane
- Made use of OpenCV and numpy methods in calibrating the camera and tuning channel thresholds

**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

## Honors & Awards

2018 **Semester of Excellence for Fall 2018,** Claflin University Honors and Awards Convocation — *Orangeburg, SC*

2019 **Second Place,** National Society of Blacks in Computing (NSBC) Capture the Flag Competition — *Atlanta, GA*

2019 **Second Place,** Claflin University Annual Business Plan Competition — *Orangeburg, SC*

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*