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 Carson Tisdale Honors College
- **GPA:** 4.0/4.0
- Relevant Coursework: Algorithms and Data Structures, Operating Systems, Foundations of Computing, Discrete Mathematics, System Analysis and Design, Computer Organization and Architecture, Introduction to Digital Logic Design, Circuit Analysis

## Skills and Interests \_\_\_\_

- Programming Languages: C++, Go, Python, HTML/CSS/JavaScript
- Libraries and Frameworks Django, jQuery, TensorFlow, Numpy, OpenCV
- Interests: Robotics, Artificial Intelligence

# **Relevant Experience**

ft Remote

SOFTWARE ENGINEERING INTERN - DEPLOYS TEAM

June 2020 - July 2020

- 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

#### **National Society of Black Engineers**

Orangeburg, South Carolina

COMMUNITY SERVICE CHAIR (CLAFLIN CHAPTER)

October 2019 - July 2020

- Worked with NSBE Jr. chapters to setup programs that will help solidify the STEM and CS backgrounds of their students
- Organized programs that aim to solidify the CS foundation of students in the Claffin community

Member 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

#### **Institute of Electrical and Electronics Engineers**

Owerri, Nigeria

PUBLIC RELATIONS OFFICER

March 2017- April 2018

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

# Software Projects \_\_\_\_\_

#### Highway Path Planner (https://github.com/macvincent/Highway\_Path\_Planner)

May 2019

- Given sensor data, determines optimal speed for ego vehicle and when it is safe to change lanes
- Generates trajectory for vehicle and makes use of a spline function to minimize jerk reactions

#### 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

### 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

## Lane Finder (https://github.com/macvincent/Advanced\_Lane\_Line\_Finding)

February 2020

- $\bullet~$  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

# Honors & Awards

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	Orange burg,SC
2018	Semester of Excellence for Fall 2018, Claflin University Honors and Awards Convocation	Orange burg,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