

Hello, My name is Taeyonn Reynolds and I am from Virginia Beach, Virginia. I am currently attending Elizabeth City State University (ECSU) as a sophomore where I am pursuing a degree in Computer Science.

I have always had an enthusiasm for learning computer science and that contributed to me choosing that to be my major. Majoring in computer science will allow me to get involved in intensive research that will relate directly to my future career. Subsequently when I decided to attend Elizabeth City State University I found that the Center of Excellence in Remote Sensing Education and Research (CERSER) had an excellent program to offer. The program provides you with excellent training in many programs that are then applied in a research project.

During my freshman year with Center of Excellence in Remote Sensing Education and Research I participated in a research project with my fellow classmates. We used the program Tensorflow to detect objects in a image. Tensorflow is an open source software library for high performance numerical computation. Its flexible architecture allows easy deployment of computation across a variety of platforms. Through our research we created a program that was capable of detecting a numerous amount of objects in a photo.

During the spring of 2018, I completed my first research project alongside three other CERSER members. The title of the project was “Using Tensorflow to Detect Objects in an Image”. In this project, we explored the development, implementation, and evaluation of a machine learning algorithm, specifically a neural network, to automate the detection of ships to track traffic in a desired port or region. We also used a graphical approach to computation using TensorFlow, which offers easy massive parallelization and deployment to the cloud. The final result is an algorithm, which is capable of receiving images from various sources of imagery at various resolutions and be able to identify the appropriate objects within the image.

During my time at Elizabeth City State University I am pursuing my Bachelors Degree in Computer Science in order to enter a masters program. To do this I will need to maintain good grades and participate in internships throughout my years.