I am graduate student at StonyBrook University Fall 2017 to Spring 2019. Turning Ideas into reality is my passion.

My masters thesis topic is **'Face editing using GANs'** and my advisor is **Dr. Dimitris Samaras** (Director of Computer Vision Lab, StonyBrook). As part of this project, I have implemented object detection using CNNs, AutoEncoders and VAEs for image generation. Currently, I am implementing GAN for face generation. Goal of this project is to allow face editing tasks such as changing face geometry, expressions using Generative Adversarial Networks.

In Fall 2017, I had enrolled Artificial Intelligence, Analysis of Algorithms, Smart Energy and Computing with Logic and audited Computer Vision seminar. Smart Energy is advanced research project course as part of which, I worked on solving energy waste problem due to unplugged devices. I proposed IoT and ML solution with working prototype. I implemented Linear regression, SVM and LSTM models for energy consumption prediction to detect when appliance is not in use and can be turned off completely. I also implemented backend for communicating with device (ESP8266 Wifi module) and live prediction.

I am working with Bio-Medical department for implementing image parsing tool to convert very high resolution proprietary image format into tiled TIFF format, this project is funded by Research foundation for SUNY.

In Spring 2018, I have enrolled into Machine Learning, Convex Optimization and Probability and Statistics for Data Science courses. As part of Convex Optimization course project, I will be implementing new or improving existing optimization algorithm in Tensorflow/Torch (framework undecided as of now).

Before joining graduate program, I was working at Nvidia where I worked on backend compiler interacting with OpenGL and DirectX driver for improving Tegra-Graphics performance. I have contributions from Nvidia Shield TV to CUDA 9.0 to Nintendo Switch. And I am really proud of what I worked on at Nvidia as System Software Engineer and as Intern.

I request you consider my application for as I believe I have strong problem solving background and ready to tackle new problems.