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). My first project is 'Denoising lighting from single face images' which is known hard problem to solve. We will use Generative Adversarial Networks to solve this problem.

Apart from my project, I have been experimenting with GAN architecture and have came up with new architecture to train multiple generators - Co-Operative GAN and make copies of one performing better every epoch.

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. And inspired by Convex Optimization, I am implementing YellowFin Optimizer in PyTorch.

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.

Along with having strong problem solving background, I have system software, web development, Machine Learning modelling, Mobile application development.

I request you consider my application for current position.