Senior Project Ideas

I’m really interested in either deep learning or computer vision and these are the ideas I have so far:

1. A Kaggle competition that will involve using many deep learning techniques and preprocessing of data. I would prefer this one because it will teach me how to control hyper parameters, as well as give me a goal of where I need to be. The competition is also pertaining to fishing, which I love. This is the link: https://www.kaggle.com/c/the-nature-conservancy-fisheries-monitoring
2. An iOS app where you can organize your closet. This app will use computer vision when the user takes a picture of their clothes, because it will have to crop out the background.
3. A deep learning application that learns how to create music. From my research this can be implemented well using an RNN, or more specifically an LSTM (long short term memory).