

It all starts from the Kaggle Airbus Ship Detection Challenge I participated in 2018. I was tasked to capture the precise location of ships and also identify their types through examining millions of satellite images. This usually involves a significant amount of manual effort to go through each and every images. However, with the help of deep learning, I was able to build a model, and trained it with sets of data so it performs image segmentation automatically. The time needed to complete the task is greatly reduced by three orders of magnitude (20 minutes to 0.5 second/ per image). I was deeply impressed by the improved efficiency and accuracy accomplished by automation. In addition, I also get to know many software engineers all over the world through this challenge. By communicating with them, I found that the United States enjoys prosperous development in the IT industry and a very good employment and entrepreneurship environment. Numerous successful world-leading IT companies, like Google, Facebook, Amazon, Microsoft and Apple Inc., provide an excellent development platform for their employees. Eventually, I ranked as the top 20% in this challenge, but more importantly, I discovered my career goal to become an Artificial Intelligence software engineer in the United States, and make contributions to the industry.