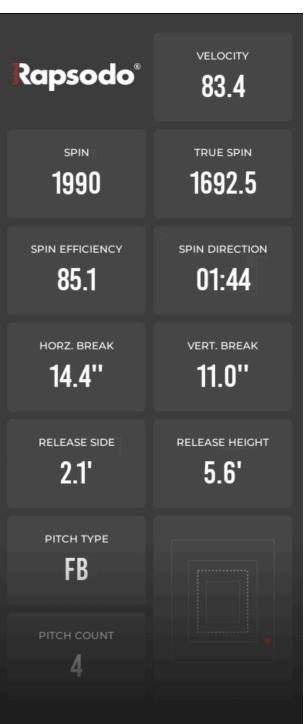
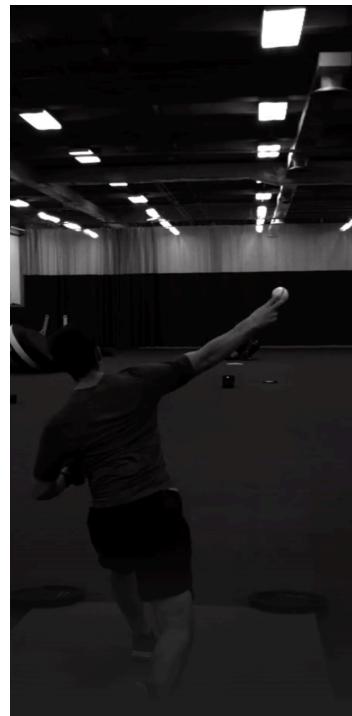
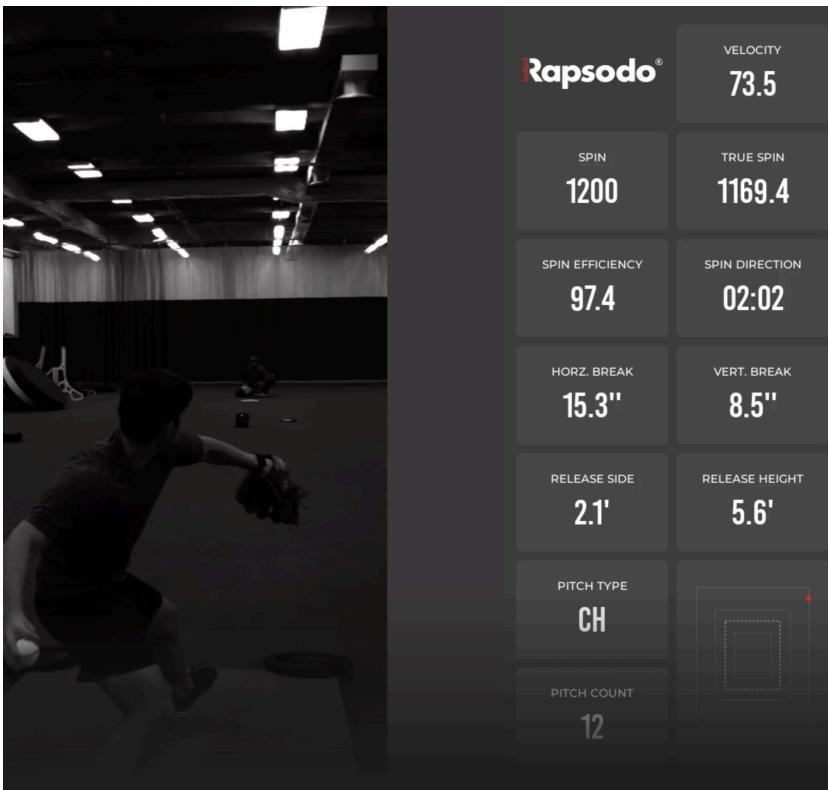


## 4-Seam Fastball/2-Seam Fastball:



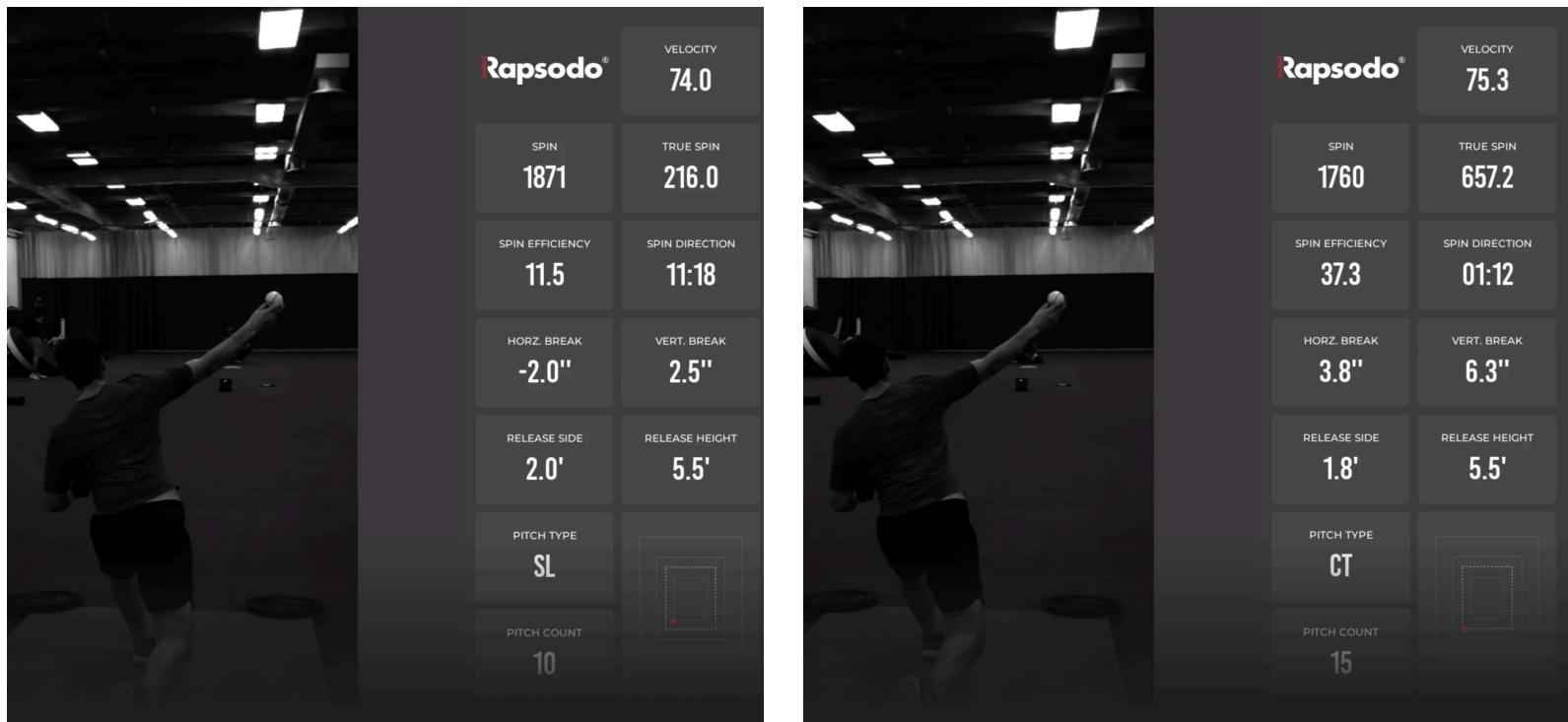
Looking at these two pitches and their break profiles they don't have a ton of noticeable differences. From watching the bullpen it seems the same way as well. With that being said they are both great pitches, but I believe the 2-seam is a little unnecessary. I don't see it actually serving any purpose in the arsenal except confusing the grips.



## Changeup:

This changeup is a decent pitch as is but also resembles the fastballs a bit too much as it is. The main issue is that the ball is spinning on almost the same axis as the fastball and no gyro spin is being generated either. In my opinion, the gyro spin is the easier thing to target. Looking at the picture on the left his hand separation is a decently long arm action and his hand is still supinated. Maybe just for the changeup it would be good to try pronating the hand during this phase to get it into a position at release that will create that gyro degree. Gyro degree/ killing spin efficiency will allow this pitch to tunnel downwards off of the fastball and make it far more effective.

## Slider:



The slider is a really good pitch and it's very clear what happens when it gets away from him. Watching the video is the only way to fully understand, but I will try my best to put it into words. On the left we have a sharp and live slider, on the right we have a slight hanger. What causes the 1:12 spin direction on the right is his finger pulling down on the front-right portion of the ball upon release (rotate the ball to a gyro spinning ball and imagine the clock). This turns some of the desired gyro spin into forward spin, but only some of the spin and not enough to make this an effective slurve. So then it becomes a gyro slider without enough gyro spin to create the shape of a sharp slider. This pitch needs to be committed one way or the other and while I think a slurve would fit better in this arsenal, he is much closer to fine-tuning a hard, fast gyro slider instead. If the shape of that gyro slider was consistent this is not much of a compromise.