<https://github.com/cbattinieri/hockey_analytics>

Above includes:

1. Big Data Cup Entry
2. Points Projection Model
3. Contract Market Analysis
4. Arbitration Study
5. Battle of Blueline gameplay research

NHL Free Agent Market Analysis Tool:

* Shiny App developed to understand the contract market(s) for pending Free Agents
* Data was used from HockeyR package and CapFriendly
* Players included are every free agent that came to market in the last 3 offseasons and this offseason as well
* Left side bar allowing filtering by Expiry Type (ufa/rfa) & position and the ability to choose a player to highlight (eg, Noah Cates) along with the option to choose up to 6 comparable players based on findings from research the in “Stats”, “Bio”, and “Contracts” tabs.
* “Stats” tab in filtered using the right-side bar which will allow you to find the best comparable players based on age and past production
  + There is a 3-season aggregate section still in development that will help with players coming off an expiring ELC
  + Along with tabular views there are charts to help visualize the player’s production and compare it to the market (blue diamond is highlighted player, red circle are players that fall within side bar filters)
* “Bio” is also filtered by the right-side bar and shows basic info about the players
* Contracts is filtered by the Expiry Type & position filters in the left side bar
* Still working through speed of app
* Was guided through the building of the App by Michael Czahor, President of EZCZ Stat Network
* No longer working as designed due to CapFriendly Sale

[FA Market App](https://cbatt.shinyapps.io/sampleapp/) user:stanley password:cup

Player Comp Dashboard:

* Tableau Dashboard comparing any two active players in the NHL
* Data also from NHLapi R package play by play data
* Goal is to highlight High Danger chances and to provide deeper insights into where play is being driven when these players are on the ice
* Stats only show 22-23 season

[Player Comp](https://public.tableau.com/app/profile/chris.battinieri/viz/NHLPlayerComparisonDashboard/PlayerComp)

Prospect Dashboard:

* Tableau Dashboard showing pre-draft production of drafted NHL players since 2008
* Prospect data from pick224.com and NHL data from NHLapi R package
* Goal is to show drafting efficiency as well as capture underlying trends of performance translating to the NHL

[Prospects](https://public.tableau.com/app/profile/chris.battinieri/viz/DraftedPlayersPre-NHLProduction/PGP)