Project Ideas

Idea 1: Dice Rolling Tool

Tool that can be used to roll dice and also read from as series of values depending on the value rolled.

* App should be either a mobile app or a desktop app
* App should have its contents on a server
* Users should be able to log in
* User data should be encrypted
* Users should be able to see their last x # of rolls or results from table
* Dice should have Graphics at bare minimum if possible, animations
* Users should be able to choose what dice they roll
* Give users the ability to design and save their own dice
* Peer to Peer or some kind of connectivity

Idea 2: AI \ Machine Learning Game

Game in which and AI tries to learn to beat the game as quickly as possible

* Game should be either a racing game or platformer
* Game should take about 15 minutes to complete normally
* Ai should be timed
* After Ai has learned to beat the game, it should then try to beat it as quickly as possible

Idea 3: Hacking Sandbox

A fake website that can be used to simulate an unsecure website

* Website should be vulnerable to a variety of attacks: start at 5 but hopefully the big 10
* Website should be an online store: have some sort of inventory / catalog
* Website should have a variety of users and user types
* Password Attacks
* Sql Injection
* Cross site scripting
* Malware