Real-Time Online Security and Monitoring Application
Team: Graham Foster (Lead), Fernando Mendoza (Scribe), Diego Segundo, Blake Johnson, Quintin Hill, Omer Cohen

Motivation
- Data breaches always prevalent
- Breaches include bank info, social security, personal passwords, and more
- That data is released throughout both the internet and darknet
- Knowing when a breach occurs and the severity of that breach is essential to keeping information safe

Solution
4 key security functions:
- Aggregate existing data
- Analyze to create risk factor
- Monitor for any new breaches
- Report to and notify the user

Combining all of these creates a central security console for analysts and private users

Impact
- Revolutionize the way security analysts discover data breaches
- Minimize time between breach and fixing it
- Securing a user’s information
- Generate in-depth reports
- Notify users immediately of what and where a breach occurred

Create a Sensor
A. Pick a name that describes the sensor
B. Enter keywords that will be searched by the sensor
A. Select source of search

Get Real-Time Data

Receive Real-Time Alerts

Technologies Used
- React
- Firebase
- docker
- Selenium
- PASTEBIN

System Architecture:
- PasteBin
- DarkWeb
- DataBase
- Alert User
- HavelBeenPwned
- Create Sensor