

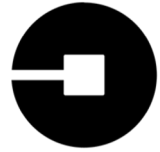
NOVASIGHT

**Real Time Online Security &
Monitoring Application**

Partnered with Novacoast



EQUIFAX



UBER



Mobile



YAHOO!

GRBITZ

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UNDER ARMOUR



MARRIOTT



TARGET



CHASE



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abc NEWS



- Data leaks are an ever prevalent problem
- What we can change is the response time to address these data leaks



NOVASIGHT

**Real Time Online Security &
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Partnered with Novacoast



Team: Human Error Is A Myth



Graham Foster
(Lead)



Fernando Mendoza
(scribe)



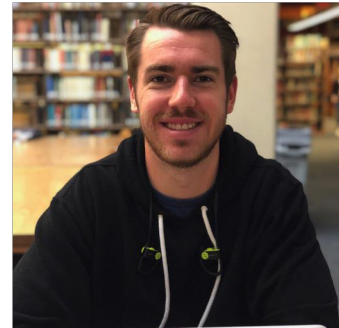
Omer Cohen



Diego Segundo



Quintin Hill



Blake Johnson



Need for a system to combat these attacks

- Personal Device Leaks
- Company Database Leaks
- There are security analysts who work to prevent and detect these breaches
- This is extremely time consuming due to the scale with which these breaches occur both in size and frequency



Our Solution

- Minimizes Response Time
- Centralized and Automated Web Application
 - Simultaneously scrapes: pastesites, breached databases, darkweb marketplaces
- Analysis Algorithm
- Proactive Alerting System

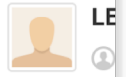
type: Visa

number: 4539 3957 6957 5263

cvv: 672

exp: 05/18

name: ALEXANDRA JEFF



Not

text 1.11

- 1. typ
- 2. num
- 3. cvv
- 4. exp
- 5. nam
- 6.
- 7. typ
- 8. num
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- 10. exp
- 11. nam
- 12.
- 13. type: Visa
- 14. number: 4532 1517 1844 9010



Cfg

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The Sensor

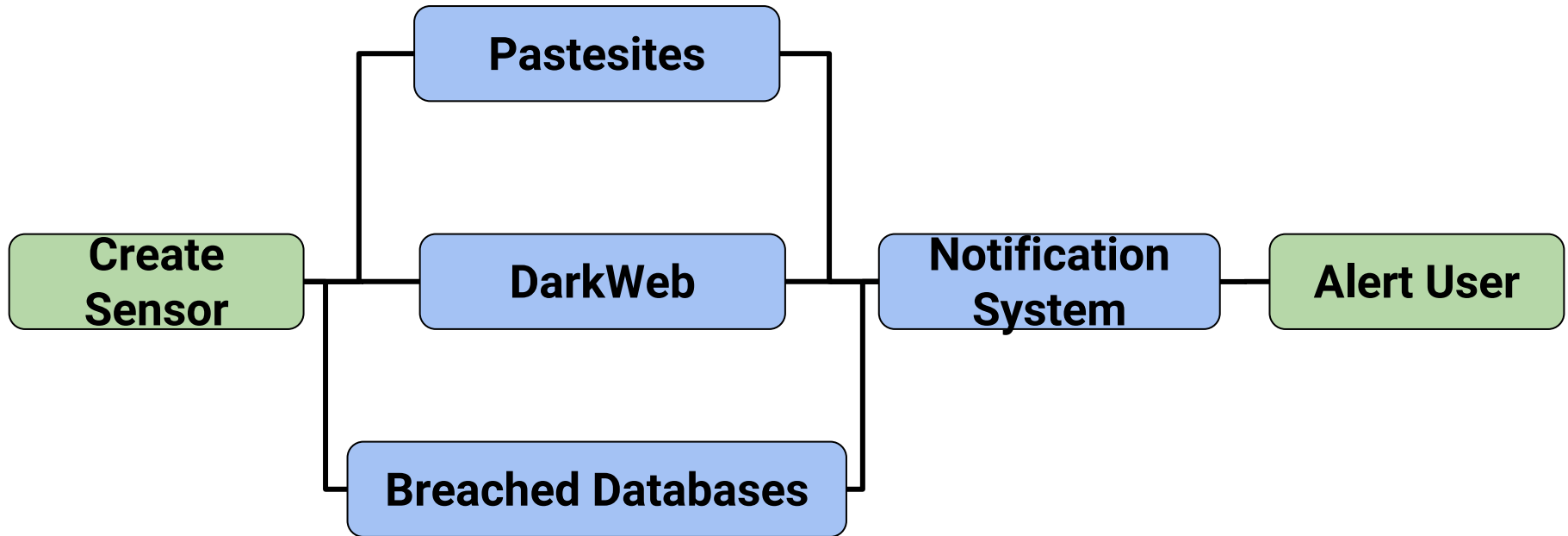
- Our tool to put together all the search terms that may be helpful in finding your information
- Terms include name, email, company, etc.

*One sensor will look for each of these search terms.





How it works



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Demo



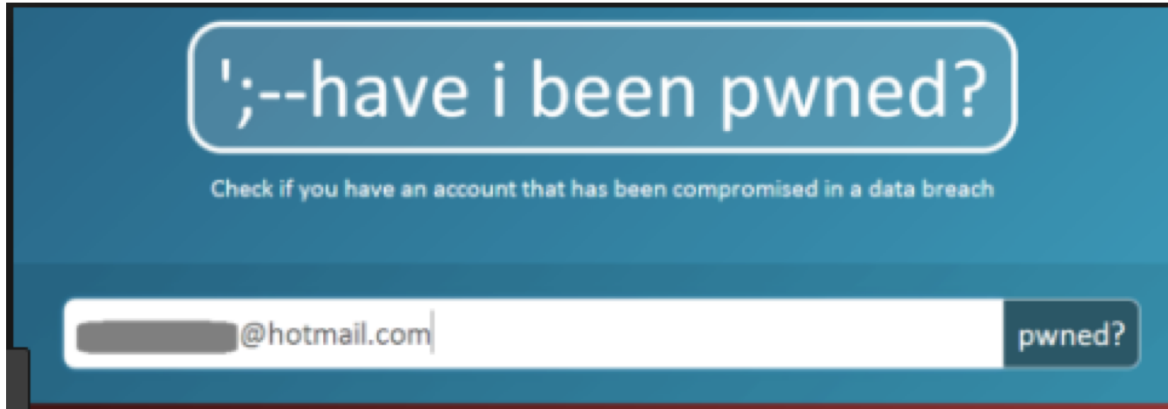
Pastesites

- Pastesites allow us to find leaked personal information that has been exposed
- We use Selenium to streamline the data gathering process
- Selenium allows us to automate tedious tasks otherwise required of security analysts



Breached Databases

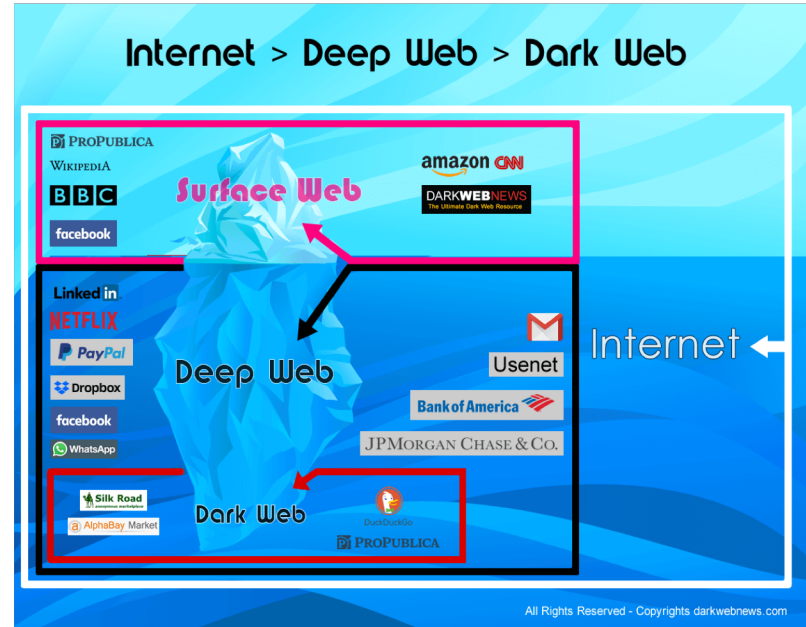
- System will monitor breached databases and email/password exposure (l.e. HaveIBeenPwned Database)





DarkWeb MarketPlaces/Forums

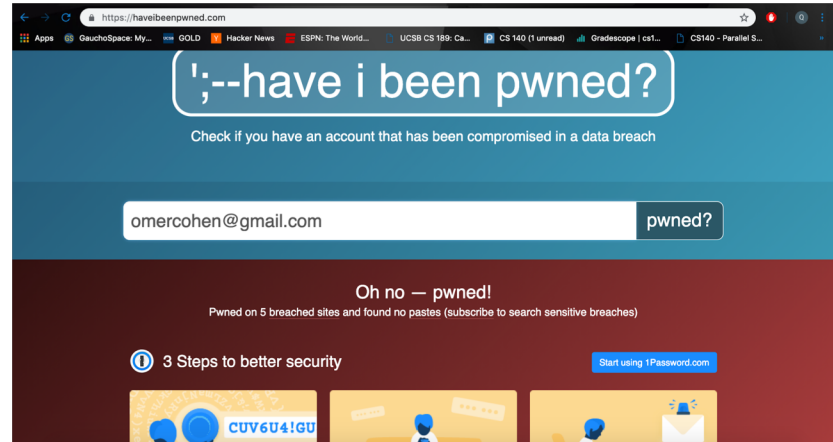
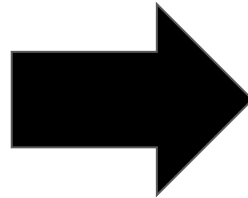
- In addition, we monitor Dark Web sources for data
- Less regulation than pastesites
- Hidden behind layered proxy networks on the DarkWeb.





Notification System

- We notify users in real-time of any detected breaches
- Allowing our users to immediately address any information leak

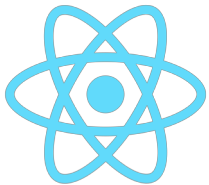




Technologies Used in Implementation

- Parallel asynchronous architecture allows for independence between modules.
- Extensible backend architecture
- Our REST API allows developers to call an individual module that suits their needs.

REACT



docker



Firebase

Selenium





Impact

- Viable for both consumers and corporations.
- With our API we can connect our system to all these other identity management systems
 - **This is defensive software**
- This application has implications for EVERYBODY, security affects EVERYBODY



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THANK YOU!
Questions?