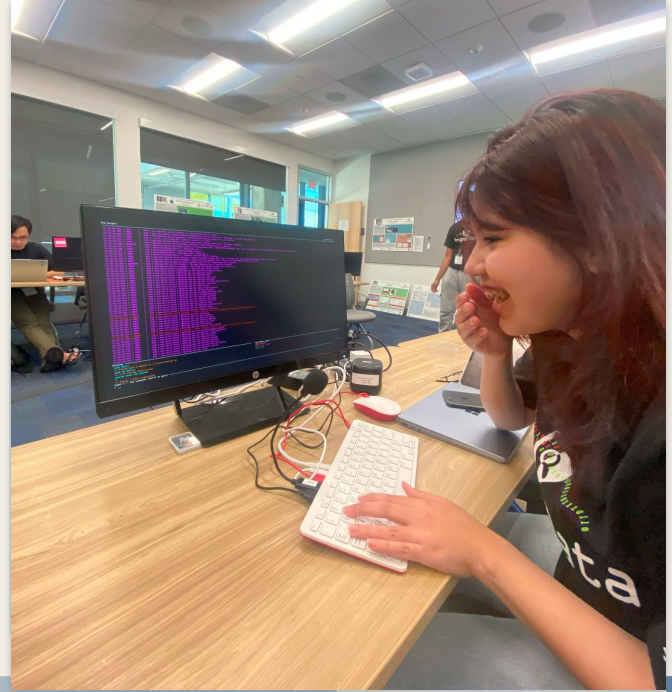# Mily

Emily Nguyen , Kamily Paipay

About Us

Kamily Paipay

Emily Nguyen

Statistic

❖ "Amazon has now taken 76% of the U.S. market with an estimate of 15-million devices sold in the U.S. alone in 2017" (Cornell University, Oct 2020)

❖ In a study done in 2019, 74% of the interviewed participants have security and privacy concerns regarding their information on the internet (Chola Chhetri & Vivian Genaro Motti, March 2019)

WHOA!

GOALS

- Understanding IOT devices
- How can we protect our information?

Tinkering with the Raspberry PI and Mycroft
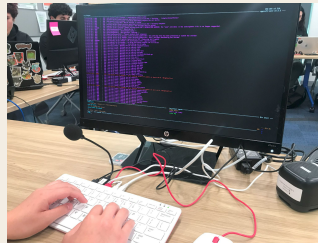
6/20

6/21

6/22

6/28

Intro to Raspberry PI
- How does it work?
- Set up Mycroft

Premade Skills
- Weather
- 8 ball

Our Skill
- Horse

Data Gathered
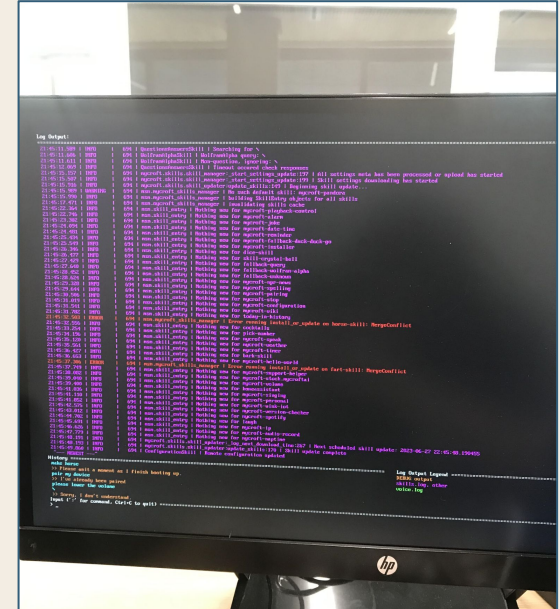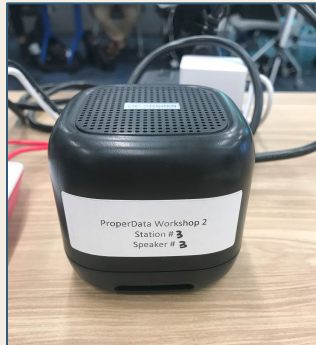No trackers were found in use by the Mycroft

Mycroft Known Trackers

stopad_abp_block_dec
ision

piholeblocklist_default
_abp_block_decision

moaab_abp_block_dec
ision
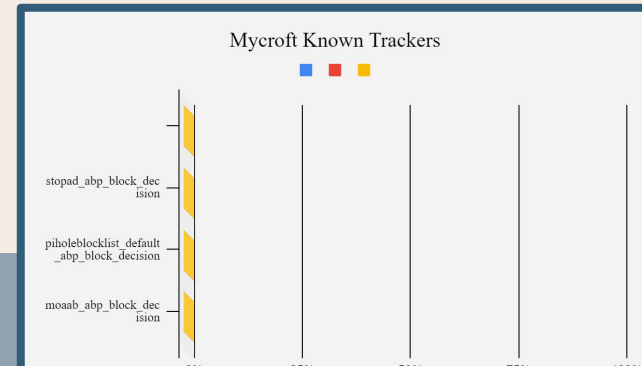
Challenges Faced

- Troubleshooting why our speaker did not output audio

- Only would output at 100% volume

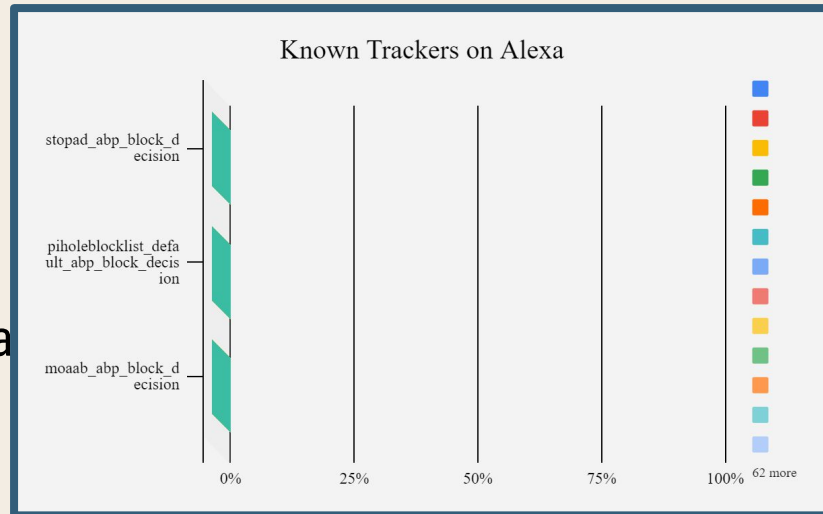- Fixed settings and restarted the raspberry pi computer and mycroft
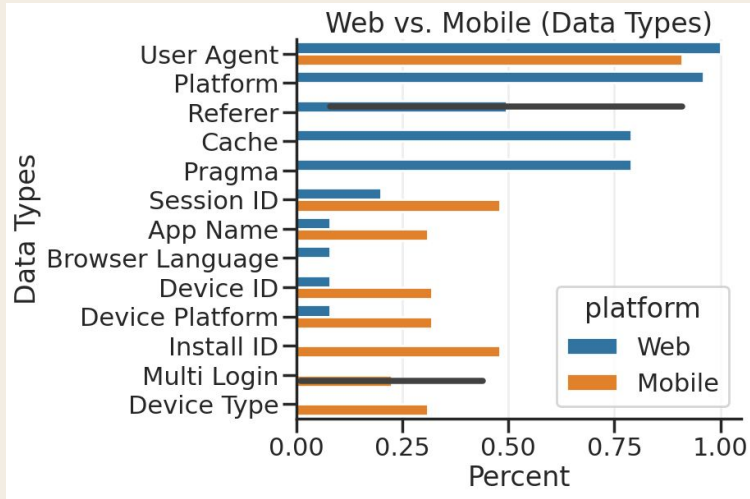
Alexa

❏ What is Alexa doing when we are not using it?

❏ No trackers were found

❏ In a study done by IEEE, out of 199,295 Alexa skills, 43% of the skills follow bad privacy practices (IEEE Transactions on Dependable and Secure Computing)

Known Trackers on Alexa

stopad_abp_block_d ecision

piholeblocklist_defa ult_abp_block_decis ion

moaab_abp_block_d ecision

0%   25%   50%   75%   100%   62 more

Tik Tok

Tik Tok has mobile and web platforms, each collecting different data types

Web vs. Mobile (Data Types)

Web
* ★ User Agent
* ★ Session ID
* ★ Platform
* ★ Referrer
* ★ Cache ID

Mobile
* ★ User Agent
* ★ Session ID
* ★ Multi Login
* ★ Install ID
* ★ Device ID

But why does Tik Tok want all this information about their users?

How to Protect Yourself

If our information is not protected, what can we do?

Incognito mode does not protect your information

Ad Blockers protects user from being identifiable amongst other users

Secure browsers with built in VPNS keep you and your data safe!

AdBlock

Experience

❖ Learning about the negative implications of data collecting
❖ How to stay safe on the internet
❖ Gained technical experience through the Raspberry Pi
❖ Listened to experts and educators
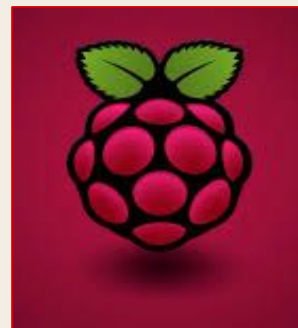
THANK YOU !

ANY QUESTIONS?
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