

# ACADEMIC ENGAGEMENT BRANCH (AEB)

*Meeting the Cyber Workforce Needs of Tomorrow for Grades 3-5*





# Cybersecurity and Infrastructure Security Agency

The Cybersecurity and Infrastructure Security Agency (CISA) is the government agency that works to protect Americans from cybercrimes.

CISA wants to make sure everyone of all ages knows about cyber and cybersecurity. Our goal is to not only keep everyone safe online, but also to inspire future cyber leaders!



# Definition: Cybersecurity

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*Protecting the online world from cybercriminals who try to hack into computer systems to cause trouble and steal information.*

# What is Hacking?

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**Hacking** is when someone breaks into a computer system by going around the usual security, like passwords, and getting into the computer system via a different route to the official one.



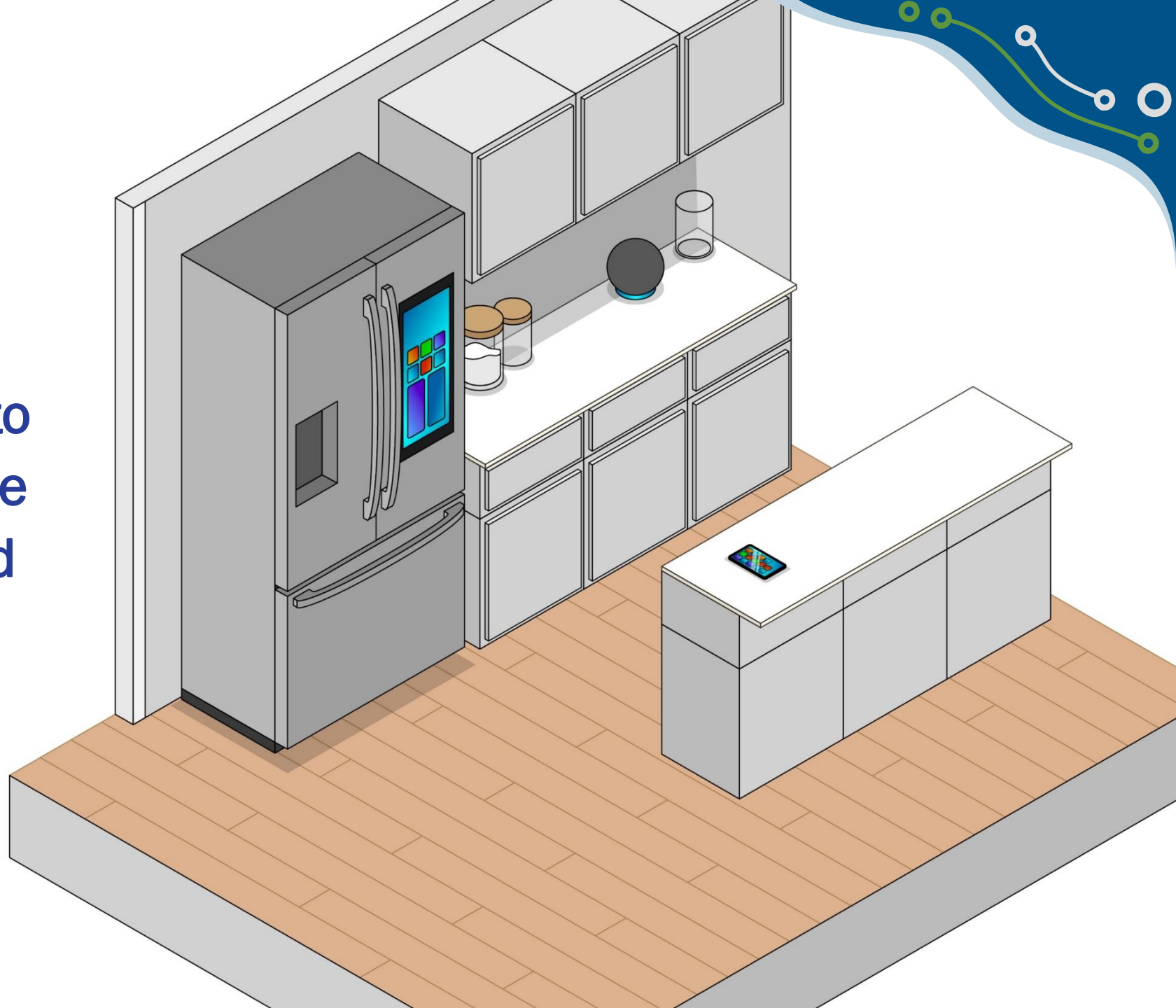


What can be hacked in your home?

# What Can Be Hacked?

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- Look at this kitchen to see if you can find the electronics that could be hacked by cybercriminals.





Smart  
Appliances

An isometric illustration of a modern kitchen. On the left is a tall refrigerator with a large touchscreen panel on its right door. In the center is a kitchen counter with a white surface and grey cabinets below. A black smart speaker sits on the counter. To the right is a smaller kitchen island with a white top and grey base, with a smartphone resting on it. The floor is made of light brown wooden planks. The scene is highlighted with a soft green glow. Three blue speech bubble callouts point to the refrigerator, the smart speaker, and the smartphone.

Smart  
Speakers

Phones

# What Can Be Hacked?

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- Now You Try!
- Look at this living room to see if you can find the electronics that could be hacked.





Security Cameras



Wi-Fi Routers



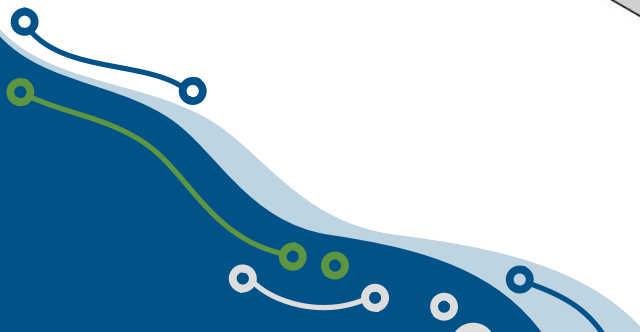
Smart Speakers



Smart TVs



Tablets



# Beware of Cybercriminals!

Devices that connect to the internet need to be secure!

Sometimes cybercriminals can take control of devices and steal important information or infect it with a digital virus.



# Beware of Cybercriminals!

Make sure to always have a parent around when you use electronics, like tablets, phones, or computers.

Let them know if you see or hear something suspicious!



# How to Stay Cyber Safe!

The internet can be a cool place with lots of information, funny videos and fun games! Unfortunately, not everyone online is as cool. Some people go on computers to cause trouble and trick others



# How to Stay Cyber Safe!

- Always ask a caregiver before downloading any games, songs, or apps.
- Only talk to people you know online, whether on the computer or when playing video games.
- Never click on ads or messages that pop up on videos and games - no matter how fun they look!





# How Cyber Professionals Keep Us Safe

From talking with friends and family to ordering food or buying toys online, there is TONS of information being sent online and through devices like phones and computers every day. Cybersecurity professionals help keep this information safe!

CISA hopes that when kids like you and your classmates grow up, you will want to have a cyber job and help keep everyone safe from cybercriminals stealing this information!

# What are Cyber Careers?

Cyber jobs are not just coding and hacking like on TV - they can be really fun, like finding clues online to solve crimes! Today, almost everything we do connects to the internet – that's why almost every company needs cyber professionals!

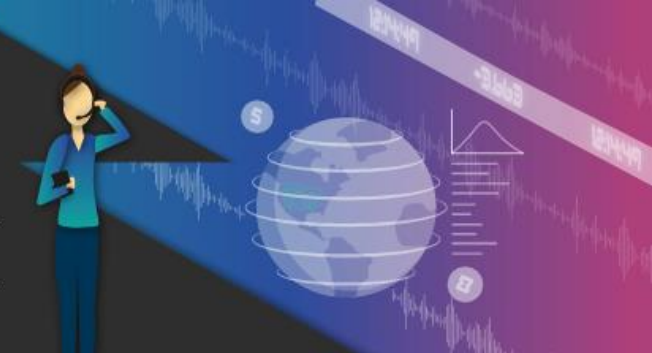
CAREER PROFILE:

## KNOWLEDGE MANAGER



CAREER PROFILE:

## CYBER OPERATOR



CAREER PROFILE:

## CYBER CRIME INVESTIGATOR



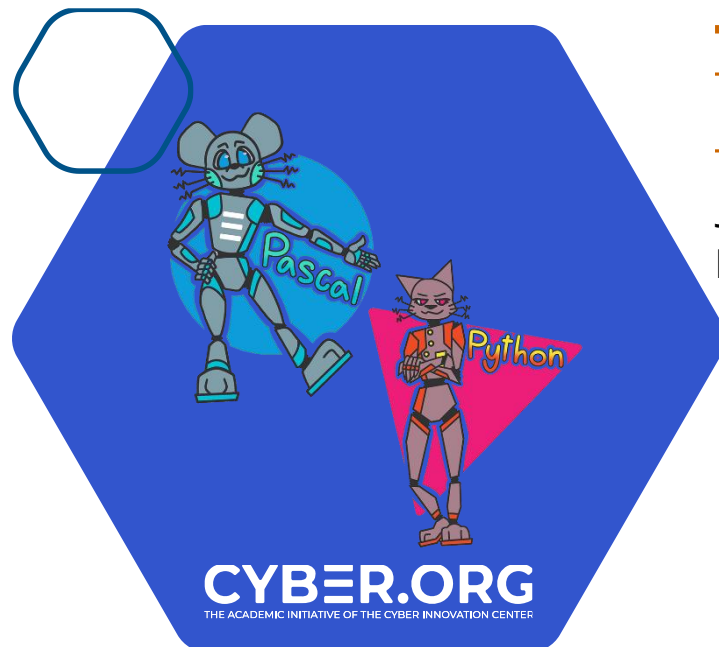
CAREER PROFILE:

## CYBER SECURITY ENGINEER



# Want to Learn More About Cyber Safety?

CISA has many resources to help you and your family stay safe from cybercriminals and cyber threats. Be sure to learn more about how to be cyber safe so you can teach other how to be safe online too!

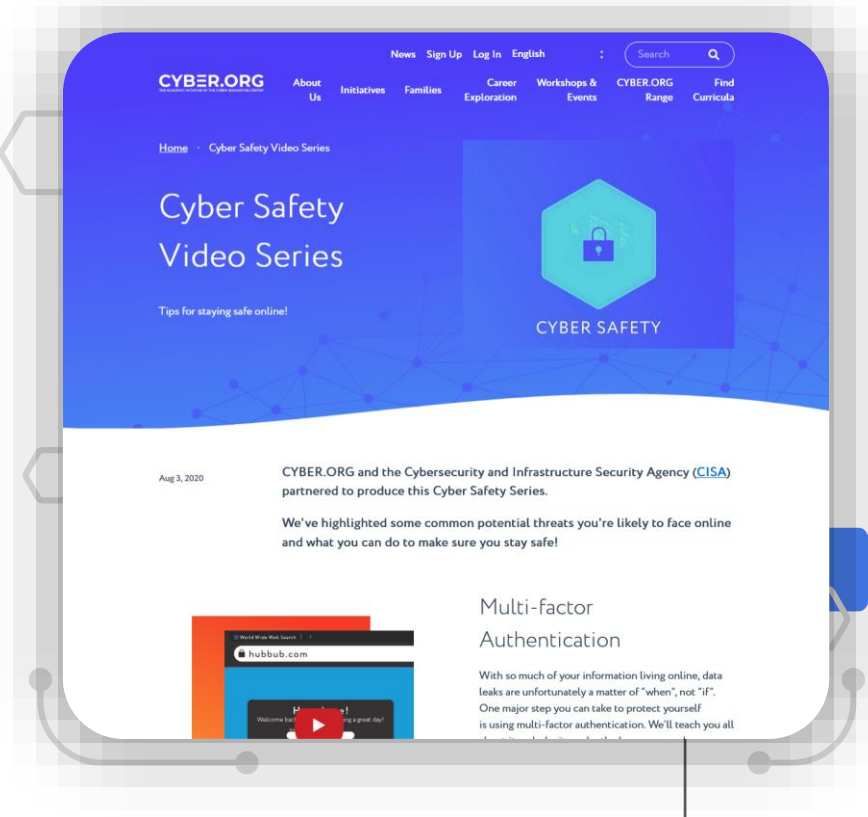


## The Adventures of Pascale and Python

Join Pascal and Python as they learn all about internet safety!

## Cyber Safety Videos

CISA and CYBER.ORG partnered to produce the Cyber Safety Series which covers common potential threats you're likely to face online and what you can do to make sure you stay safe!





# Additional Cyber Resources

## Education Resources:

- [CISA Cybersecurity Education & Training Website](#)
- [CISA Cybersecurity Education & Training Resources List](#)
- [NICCS Website](#)
- [CYBER.ORG](#)

## Competitions:

- [Cyber Patriot](#)
- [National Cyber Cup Competition](#)

## Scholarships & Academic Programs

- [National Centers of Academic Excellence \(CAE\) Program](#)
- [CyberCorps Scholarships for Service \(SFS\) Program](#)

## Workforce Development:

- [Try Cyber](#)
- [Cyber Workforce Training Guide](#)
- [Cyber Career Pathway Tool](#)
- [CyberSkills2Work](#)
- [Cyber Career Profile Cards](#)

