Duke | Code

GAMIFYING CYBERSECURITY AWARENESS

DARA, ANUSHKA, JOHN, SULTANH, SHOUQ, MIGUEL
TEAM LEADS: JOE RICCI, SAM NAIM

OUR GAME CONCEPT

Your computer is getting hacked!
Complete cybersecurity tasks like spotting phishing, enabling 2FA, and choosing strong passwords to stop the hacker. The player spawns in a map and enters different rooms — each room transports them to a new area with a fun cybersecurity awareness task.

OUR TECH

We used Godot to build the game and integrated it with a backend system powered by Flask, PostgreSQL, and Apache HTTP Server. Authentication is done using Shibboleth, and everything runs on OKD (OpenShift platform).

CYBERSECURITY SKILLS COVERED

- Identify scam calls and avoid social engineering traps
- Recognize phishing emails and suspicious links
- Spot malicious websites that target specific users (Watering Hole Attacks)
- Create strong and secure passwords
- Understand the importance of Two-Factor Authentication and Captchas

THE PROBLEM

Many students lack basic cybersecurity awareness.
They often find the topic boring or irrelevant, and current educational methods fail to capture their attention, leaving them vulnerable to online threats.

OUR SOLUTION

We developed an engaging and interactive game designed to teach students essential cybersecurity skills in a fun and memorable way, motivating them to protect themselves in the digital world with confidence.

START

SCREEN SAVER MINI-GAMES

Duke | Code <+>

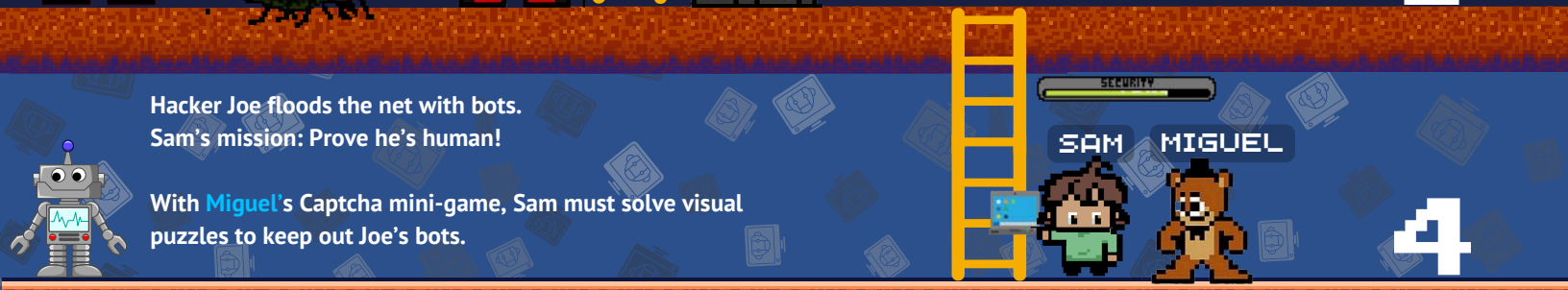
TRY OUR GAME " HTTPS://SCREENSAVER-TEST.OIT.DUKE.EDU "

With Shouq & Sultanh's help, Sam manages to breach one of Joe's hideouts and ... huh? Turns out Hacker Joe protects everything with the passwords "123456" and "AwesomeGuitarPlayer"...

Shouq and Sultanah show Sam how important strong passwords are.

Next level: secured

5



Hacker Joe floods the net with bots.
Sam's mission: Prove he's human!

With Miguel's Captcha mini-game, Sam must solve visual puzzles to keep out Joe's bots.

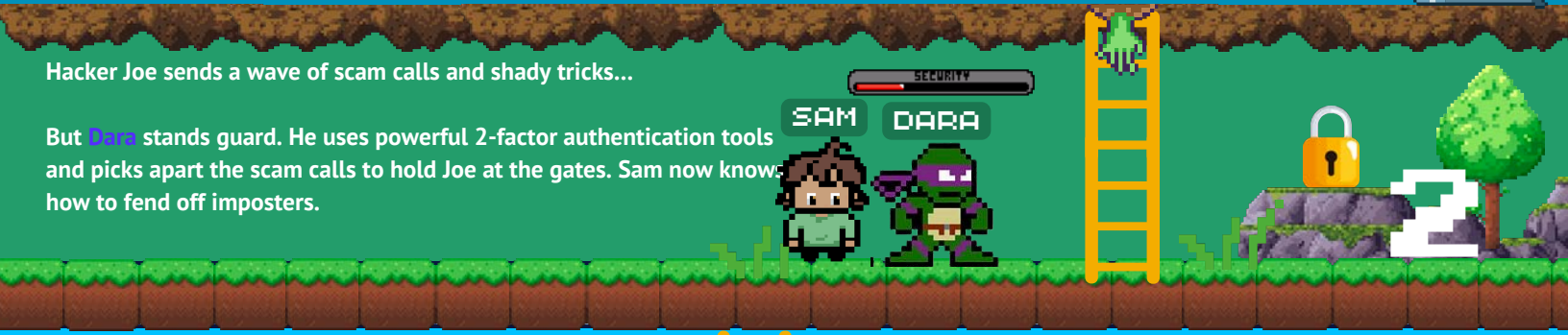
4

As Sam climbs higher, his inbox overflows.
Hacker Joe sends fake emails and malicious links.
One misclick could be detrimental...
But thanks to Anushka's elite training, Sam can now spot the fakes, dodge the bait, and move forward.

3

Hacker Joe sends a wave of scam calls and shady tricks...

But Dara stands guard. He uses powerful 2-factor authentication tools and picks apart the scam calls to hold Joe at the gates. Sam now knows how to fend off imposters.



2

Sam steps into the pixel world, crafted by the artist John.
But something's wrong ... a mysterious figure named Hacker Joe lurks nearby, spreading cyber traps that endanger Sam and others.
Sam must climb, explore, and defend the digital world.

Are you ready to level up in cybersecurity awareness?

1