The Web's Biggest Problem: Stopping Bots, Allowing You.

Edward Coristine

Agenda

- Packetware 101 - The Solution Can't Be Visible

- The Environment

- How-To: Differentiating Between Bots And Users

- Securing The Principally Unsecure

- There's More Than One Solution

What is packetware?

Content delivery & cybersecurity for the ambitious among us

Self started - because there was no other option

Platforms need to value humanity more – the solution cannot be visible

The Environment

- We reverse proxy content from origins to clients, speeding up delivery and making sure users are real in the process.
- Like a CAPTCHA before you access a webpage, we want to challenge your browser, but invisibly

Differentiating Between Users And Bots From The JavaScript Window

What makes a browser like Chrome, Safari, or Firefox legitimate?

The fundamental differences between browsers that run in a shell and browsers that run on a visual operating system

An Example Check

```javascript
function retF(arg){

    try {

        return retF(arg+1)

    } catch (e) {

        if (arg > 8950 && e.toString() === "RangeError: Maximum call stack size exceeded") {

            return true

        } else {

            return false

        }

    }

}
```

Another Example

```javascript
function pup() {

    let err = new Error('building things that have the capability to
assist people is food for the soul');



    return err.stack.toString().includes('puppeteer')

}
```
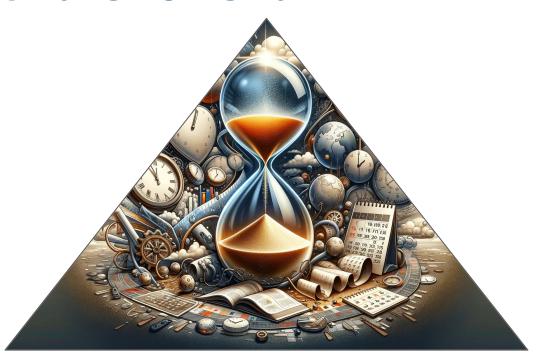
Securing The Principally Unsecure

This code is being ran on an entirely uncontrolled environment

The Game Doesn't Have To Be Fair

We've been thinking about this
the wrong way

Objectives

Catching headless browsers while responding dynamically to give everyone a fair chance

Keeping the legitimacy of the challenge

Keeping the script small, fast, and usable

To meet the ambitious goal that the best platforms go unnoticed!

Why I'm Applying to Neuralink And Why Neuralink Should Consider Me

- Neuralink is highly ambitious with a large challenge that means so much to humanity
- I'm a hardworking and curious individual that loves working toward solving challenges.