

Your Prolific ID will be collected in order to provide your compensation.

☐ I agree to participate in this study

Block 8

Before beginning the prescreening survey, we'd like to ask you a few basic questions

Your Prolific ID (Prolific ID is taken in order to provide your compensation)

What is your age?

- ☐ 18-24
- ☐ 25-34
- ☐ 35-44
- ☐ 45 and above

What is your gender?

- ☐ Male

- ☐ Female
- ☐ Non-binary
- ☐ Prefer not to say

Which country are you from?

- ☐ Prefer not to answer
- ☐ Your country

What is the highest level of education you have completed?

- ☐ High school or equivalent
- ☐ Bachelor's Degree
- ☐ Master's Degree
- ☐ Doctoral Degree
- ☐ Other

Which programming languages do you have programming experience with? (Select all that apply)

- ☐ C/ C++
- ☐ Python
- ☐ Javascript
- ☐ PHP
- ☐ Other

Which programming languages do you have code reviewing and/or open-source project maintenance experience with? (Select all that apply)

- ☐ C/ C++
- ☐ Python
- ☐ Javascript
- ☐ PHP

☐

Other

Have you contributed to any open-source projects?

- ☐ Yes
- ☐ No

How many open-source packages or projects have you maintained?

- ☐ 1
- ☐ 2-3
- ☐ 4-6
- ☐ 6 or more

How many years of experience do you have contributing to open-source projects?

- ☐ Less than a year
- ☐ 1-2 years
- ☐ 3-5 years
- ☐ 6-10 years
- ☐ 11 years or more

Have you ever used AI language models to make decisions about accepting or rejecting a PR?

- ☐ Yes
- ☐ No

Which language models do you use so frequently to make decisions in accepting or rejecting a PR?

- ☐ Claude 3.5 Sonnet

- ☐ Sonar Large
- ☐ GPT-4o
- ☐ Sonar Huge
- ☐ Grok-2
- ☐ Claude 3.5 Haiku
- ☐ AWS Toolkit
- ☐ Github Copilot
- ☐ Other

Do you rely on any static or dynamic analysis tools to make decisions in accepting or rejecting a PR?

- ☐ Yes
- ☐ No

Which static/dynamic analysis tools do you use so frequently to make decisions in accepting or rejecting a PR?

- ☐ PHPStan
- ☐ Psalm
- ☐ ESLint
- ☐ Cppcheck
- ☐ Bandit
- ☐ Other

Do you have any experience in code review?

- ☐ Yes
- ☐ No

How frequently do you review code?

- ☐ Daily
- ☐ Weekly

- ☐ Biweekly
- ☐ Monthly
- ☐ Occasionally

Have you ever used AI language models in code review process?

- ☐ Yes
- ☐ No

Which language models do you use so frequently in code review process?

- ☐ Claude 3.5 Sonnet
- ☐ Sonar Large
- ☐ GPT-4o
- ☐ Sonar Huge
- ☐ Grok-2
- ☐ Claude 3.5 Haiku
- ☐ AWS Toolkit
- ☐ Github Copilot
- ☐ Other

Do you rely on any static or dynamic analysis tools in code review process?

- ☐ Yes
- ☐ No

Which static/dynamic analysis tools do you use so frequently in code review process?

- ☐ PHPStan
- ☐ Psalm
- ☐ ESLint

☐ Bandit

☐Other

Sorry, you are ineligible for the survey. Thank you for your participation.
Please click on the [link](#) to finish the survey.

Block 1

Choose the answer that best fits the description of a compiler’s function.

- ☐ Refactoring code
- ☐ Connecting to the network
- ☐ Translating code into executable instructions
- ☐ Collecting user data
- ☐ I don’t know

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Block 2

Choose the answer that best fits the definition of a recursive function.

- ☐ A function that runs for an infinite time
- ☐ A function that does not have a return value
- ☐ A function that can be called from other functions
- ☐ A function that calls itself
- ☐ I don’t know

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Block 3

Which of these values would be the most fitting for a Boolean?

- ☐ Small
- ☐ Solid
- ☐ Quadratic
- ☐ True
- ☐ I don't know

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Block 4

Which technique involves creating malicious packages with names similar to legitimate ones?

- ☐ Dependency confusion
- ☐ Typosquatting
- ☐ Code obfuscation
- ☐ Dynamic execution
- ☐ I don't know

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Block 6

```
def process_input(user_input):  
    command = "echo " + user_input
```

`os.system(command)`

What vulnerability exists in this code?

- ☐ SQL injection
- ☐ Command Injection
- ☐ Buffer overflow
- ☐ Cross-site scripting (XSS)
- ☐ I don't know

How could an adversary exploit this vulnerability?

- ☐ Steal session cookies
- ☐ Execute arbitrary system commands
- ☐ Bypass authentication
- ☐ Trigger a DoS attack
- ☐ I don't know

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Based on the results of our prescreening process, if you meet the eligibility criteria, we will contact you regarding your participation in the **GitHub Pull Request Study**.