

SOLVE3



SMART CONTRACT BOT PROTECTION

Pitch Deck

21 Sep 2022

Agenda

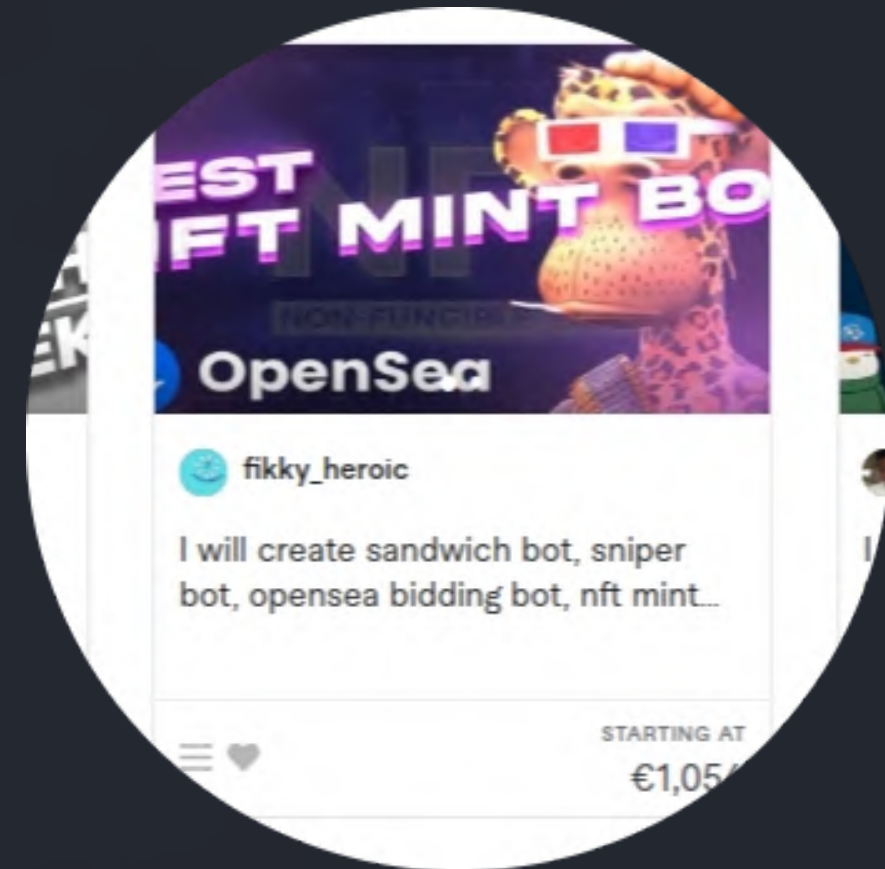
- Problem
- Solution
- Revenue & Usage
- Competitor
- Demo
- Team

The Problem

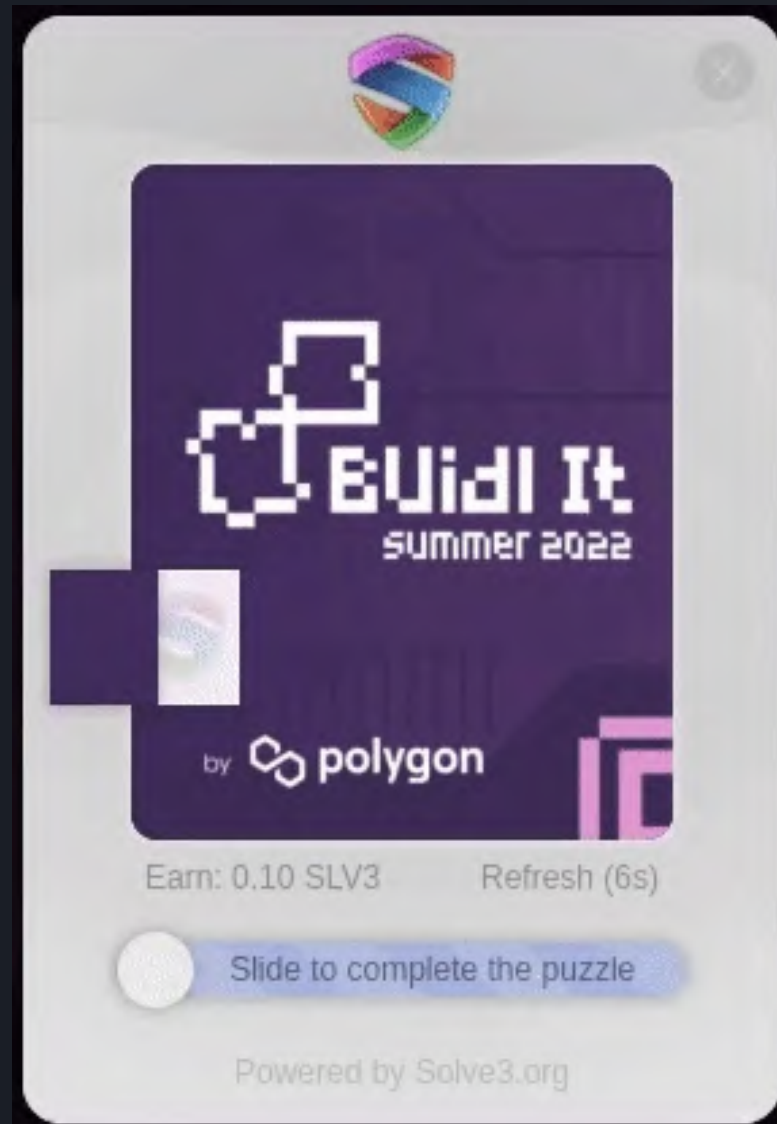
BOTS IN WEB3

Whether in web3 games, limited NFT sales or when buying tickets to your favourite crypto event, bots provide an unfair advantage in web3.

Bot owners use their chance to gain profit in web3 to the detriment of honest users.



Source: fiverr.com



Our Solution

SMART CONTRACT BOT PROTECTION

A bot protection for smart contracts by using captchas. Solving captchas has become an intuitive part of the web2 ecosystem, that is very effective in the fight against bots.

Solve3 wants to remodel this native web2 tool into one that can easily, fairly and elegantly be utilized in web3 space.

REVENUE AND USAGE



Protect

We protect smart contract from bots by using a simple solution that users are already used to.



Promote

Businesses or individuals can rent captcha images like they can rent billboards across town.



Earn

The advertising revenue is partly passed on to the users. It makes captcha less annoying.



Ease of use

Just a few lines of code are needed to implement our bot protection.

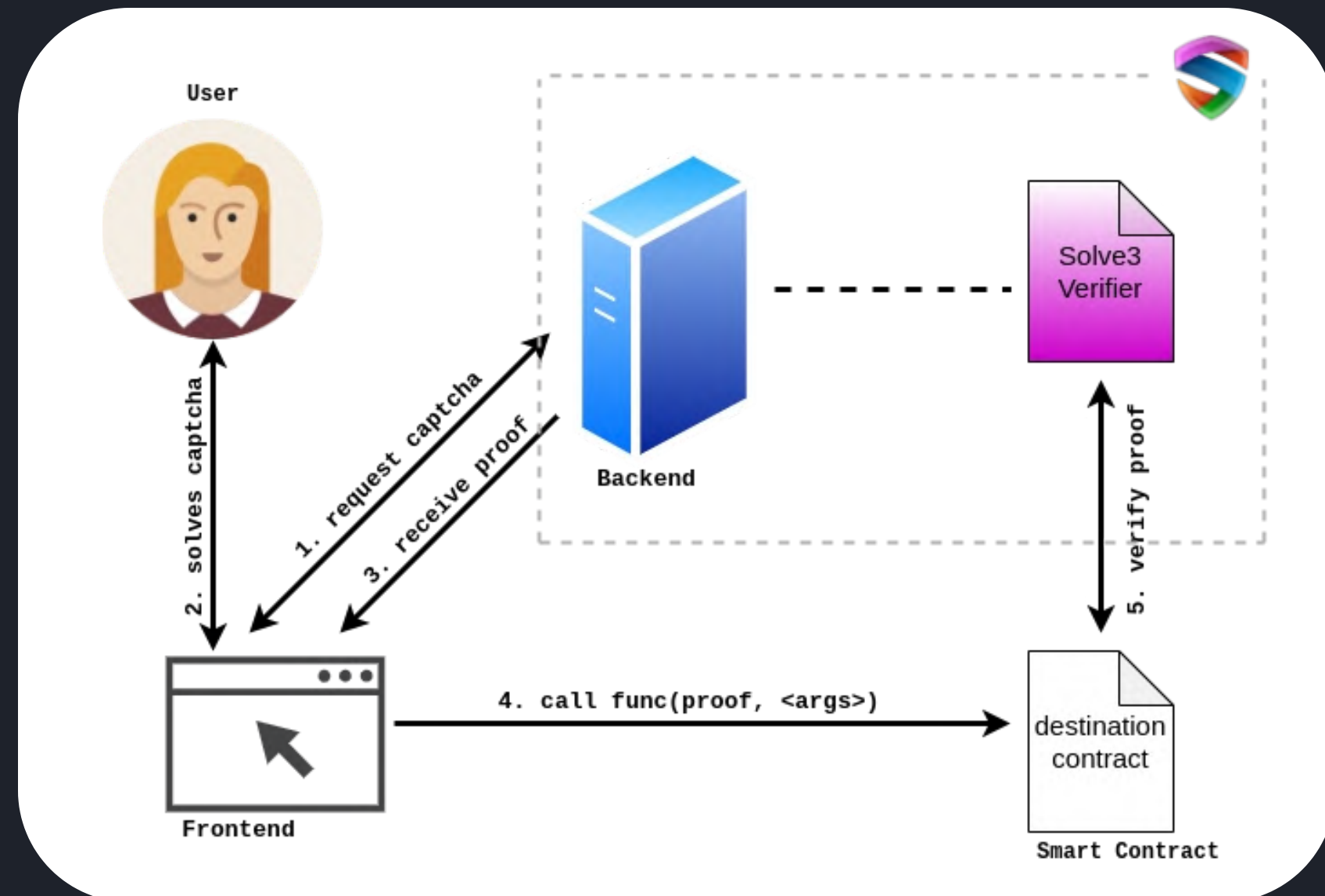
Protect

BOT PROTECTION FOR SMART CONTRACTS

Instead of interacting with the smart contract directly, a user has to solve a captcha before executing the transaction. Therefore the user needs to sign a message, based on the signed message a captcha is created.

After solving this captcha, our backend returns a proof. With this proof, the user is able to execute the smart contract function.

An on-chain verification ensures that the proof is valid.



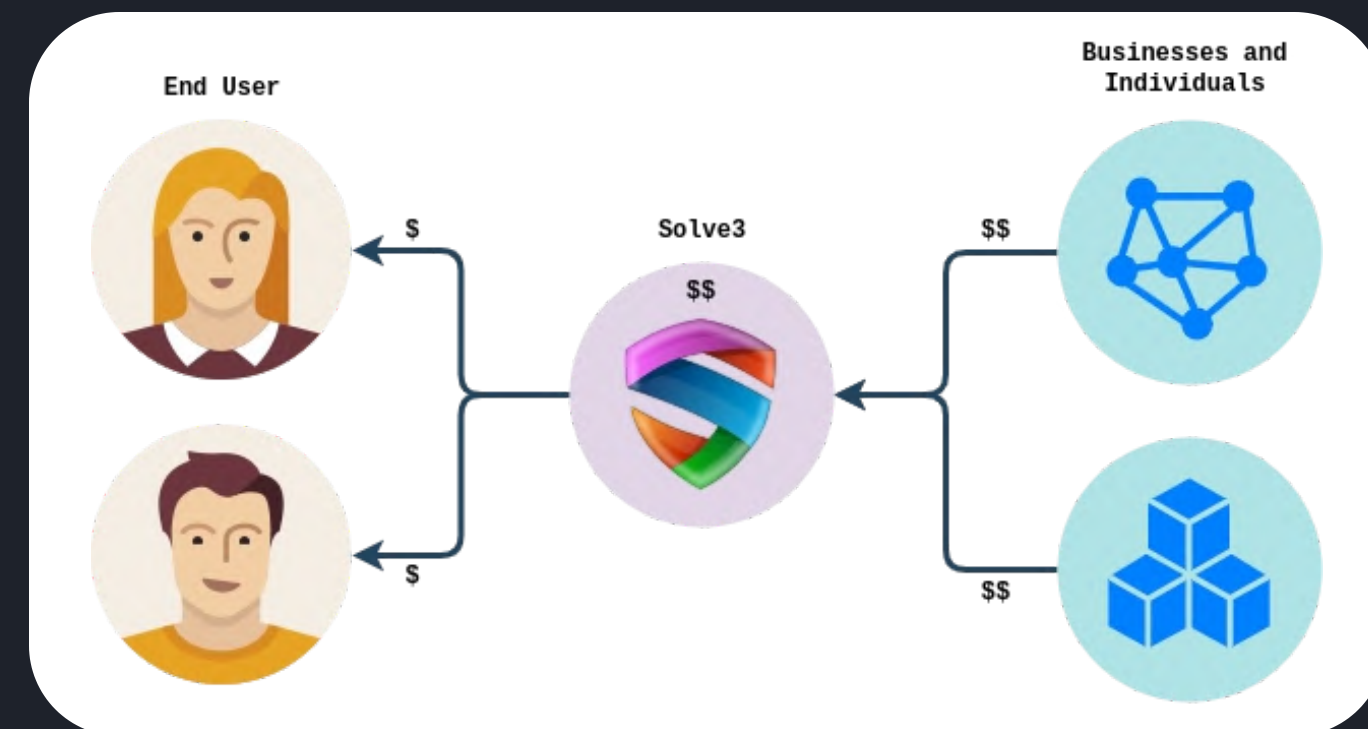
Promote and Earn

PROMOTION FOR PROJECTS

Aside from being a puzzle, a captcha can also be a marketing medium which is shown to thousands of users. Businesses or individuals can rent captcha images like they can rent billboards across town. This makes it a win-win situation. Smart contracts are protected and projects are offered a real web3 advertising platform.

EARN MONEY BY SOLVING CAPTCHAS

Captchas are annoying, but they are less annoying if the user can earn money with them. Renting a captcha image as advertisement platform must be paid. By solving the captcha the user receives a cut of this payment.



Implement

EASY TO USE

One of our main goals is to make it as easy as dev-friendly as possible: Solve3 can be implemented with only a few lines of code.

SMART CONTRACT

without Solve3

```
contract Example is Ownable {  
  ...  
  function mint() external {  
    _mint(...);  
  }  
  ...  
}
```

with Solve3

```
contract Example is Ownable, Solve3Verify {  
  constructor(address _verifier) Solve3Verify(_verifier) {}  
  ...  
  function mint(ISolve3Verifier.Message memory _proof) external verify(_proof) {  
    _mint(...);  
  }  
  function disableSolve3(bool _flag) external override onlyOwner {  
    _disableSolve3(_flag);  
  }  
  ...  
}
```

FRONTEND

without Solve3

```
const onClickHandler = () => {  
  yourContract.methods.mint().send();  
}
```

with Solve3

```
const onClickHandler = () => {  
  solve3  
    .on("success", async (proof) => {  
      yourContract.methods.mint(proof).send();  
    })  
    .on('error', async (err) => {  
      // error handling  
    })  
  const handshake = await solve3.init({  
    account: userAddress,  
    contract: yourContractAddress,  
    network: networkName  
  })  
  web3.eth.sign(handshake, account).then((msg) => {  
    solve3.open(msg)  
  })  
}
```


Solve3

Proof of Humanity

VS

✓	Bot protection using captcha	✓
✓	Relys not on 3rd party captcha service	✗
✓	Frontend implementation needed	✓
✓	Smart contract implementation needed	✓
✓	No additional backend server needed	✗
✓	Bot protection as a service	✗
✓	User can earn money	✗

DEMO

<http://demo.solve3.org>

Demo Video: <https://youtu.be/keviZWkvZQ>



TEAM



Kurt Merbeth

Bachelor of Science in Computer Science.

In Blockchain since 2019.

Blockchain Developer since 2020.

Worked for:

Giveth.io, 0VIX.com, gogocoin.io, PEY.cash, agro.exm.gr, Flarity.io



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