

1. What is your current occupation? \*

*Mark only one oval.*

- ☐ Industrial or freelance professional
- ☐ Academic or industrial researcher
- ☐ Undergraduate/graduate student
- ☐ Other: \_\_\_\_\_

2. Which of the following best describes your primary job role? \*

*Mark only one oval.*

- ☐ Development
- ☐ Testing
- ☐ Project Management
- ☐ Other: \_\_\_\_\_

3. How many years of experience do you have with your primary job role? (Please input a number, decimals okay) \*

\_\_\_\_\_

4. Current country/area of residence? \*

*Mark only one oval.*

- ☐ Afghanistan (AFG)
- ☐ Albania (ALB)
- ☐ Algeria (DZA)
- ☐ American Samoa (ASM)
- ☐ Andorra (AND)
- ☐ Angola (AGO)
- ☐ Anguilla (AIA)
- ☐ Antigua and Barbuda (ATG)
- ☐ Argentina (ARG)
- ☐ Armenia (ARM)
- ☐ Aruba (ABW)
- ☐ Australia (AUS)
- ☐ Austria (AUT)
- ☐ Azerbaijan (AZE)
- ☐ Bahamas, The (BHM)
- ☐ Bahrain (BHR)
- ☐ Bangladesh (BGD)
- ☐ Barbados (BRB)
- ☐ Belarus (BLR)
- ☐ Belgium (BEL)
- ☐ Belize (BLZ)
- ☐ Benin (BEN)
- ☐ Bermuda (BMU)
- ☐ Bhutan (BTN)
- ☐ Bolivia (BOL)
- ☐ Bosnia and Herzegovina (BIH)
- ☐ Botswana (BWA)
- ☐ Brazil (BRA)
- ☐ British Virgin Islands (VGB)
- ☐ Brunei (BRN)
- ☐ Bulgaria (BGR)
- ☐ Burkina Faso (BFA)

- ☐ Burma (MMR)
- ☐ Burundi (BDI)
- ☐ Cabo Verde (CPV)
- ☐ Cambodia (KHM)
- ☐ Cameroon (CMR)
- ☐ Canada (CAN)
- ☐ Cayman Islands (CYM)
- ☐ Central African Republic (CAF)
- ☐ Chad (TCD)
- ☐ Chile (CHL)
- ☐ China (CHN)
- ☐ Colombia (COL)
- ☐ Comoros (COM)
- ☐ Congo, Democratic Republic of the (COD)
- ☐ Congo, Republic of the (COG)
- ☐ Cook Islands (COK)
- ☐ Costa Rica (CRI)
- ☐ Cote d'Ivoire (CIV)
- ☐ Croatia (HRV)
- ☐ Cuba (CUB)
- ☐ Curacao (CUW)
- ☐ Cyprus (CYP)
- ☐ Czech Republic (CZE)
- ☐ Denmark (DNK)
- ☐ Djibouti (DJI)
- ☐ Dominica (DMA)
- ☐ Dominican Republic (DOM)
- ☐ Ecuador (ECU)
- ☐ Egypt (EGY)
- ☐ El Salvador (SLV)
- ☐ Equatorial Guinea (GNQ)
- ☐ Eritrea (ERI)
- ☐ Estonia (EST)
- ☐ Ethiopia (ETH)
- ☐ Falkland Islands (Islas Malvinas) (FLK)

- ☐ Faroe Islands (FRO)
- ☐ Fiji (FJI)
- ☐ Finland (FIN)
- ☐ France (FRA)
- ☐ French Polynesia (PYF)
- ☐ Gabon (GAB)
- ☐ Gambia, The (GMB)
- ☐ Georgia (GEO)
- ☐ Germany (DEU)
- ☐ Ghana (GHA)
- ☐ Gibraltar (GIB)
- ☐ Greece (GRC)
- ☐ Greenland (GRL)
- ☐ Grenada (GRD)
- ☐ Guam (GUM)
- ☐ Guatemala (GTM)
- ☐ Guernsey (GGY)
- ☐ Guinea-Bissau (GNB)
- ☐ Guinea (GIN)
- ☐ Guyana (GUY)
- ☐ Haiti (HTI)
- ☐ Honduras (HND)
- ☐ Hong Kong (HKG)
- ☐ Hungary (HUN)
- ☐ Iceland (ISL)
- ☐ India (IND)
- ☐ Indonesia (IDN)
- ☐ Iran (IRN)
- ☐ Iraq (IRQ)
- ☐ Ireland (IRL)
- ☐ Isle of Man (IMN)
- ☐ Israel (ISR)
- ☐ Italy (ITA)
- ☐ Jamaica (JAM)
- ☐ Japan (JPN)

- ☐ Jersey (JEY)
- ☐ Jordan (JOR)
- ☐ Kazakhstan (KAZ)
- ☐ Kenya (KEN)
- ☐ Kiribati (KIR)
- ☐ Korea, North (PRK)
- ☐ Korea, South (KOR)
- ☐ Kosovo (KSV)
- ☐ Kuwait (KWT)
- ☐ Kyrgyzstan (KGZ)
- ☐ Laos (LAO)
- ☐ Latvia (LVA)
- ☐ Lebanon (LBN)
- ☐ Lesotho (LSO)
- ☐ Liberia (LBR)
- ☐ Libya (LBY)
- ☐ Liechtenstein (LIE)
- ☐ Lithuania (LTU)
- ☐ Luxembourg (LUX)
- ☐ Macau (MAC)
- ☐ Macedonia (MKD)
- ☐ Madagascar (MDG)
- ☐ Malawi (MWI)
- ☐ Malaysia (MYS)
- ☐ Maldives (MDV)
- ☐ Mali (MLI)
- ☐ Malta (MLT)
- ☐ Marshall Islands (MHL)
- ☐ Mauritania (MRT)
- ☐ Mauritius (MUS)
- ☐ Mexico (MEX)
- ☐ Micronesia, Federated States of (FSM)
- ☐ Moldova (MDA)
- ☐ Monaco (MCO)
- ☐ Mongolia (MNG)

- ☐ Montenegro (MNE)
- ☐ Morocco (MAR)
- ☐ Mozambique (MOZ)
- ☐ Namibia (NAM)
- ☐ Nepal (NPL)
- ☐ Netherlands (NLD)
- ☐ New Caledonia (NCL)
- ☐ New Zealand (NZL)
- ☐ Nicaragua (NIC)
- ☐ Nigeria (NGA)
- ☐ Niger (NER)
- ☐ Niue (NIU)
- ☐ Northern Mariana Islands (MNP)
- ☐ Norway (NOR)
- ☐ Oman (OMN)
- ☐ Pakistan (PAK)
- ☐ Palau (PLW)
- ☐ Panama (PAN)
- ☐ Papua New Guinea (PNG)
- ☐ Paraguay (PRY)
- ☐ Peru (PER)
- ☐ Philippines (PHL)
- ☐ Poland (POL)
- ☐ Portugal (PRT)
- ☐ Puerto Rico (PRI)
- ☐ Qatar (QAT)
- ☐ Romania (ROU)
- ☐ Russia (RUS)
- ☐ Rwanda (RWA)
- ☐ Saint Kitts and Nevis (KNA)
- ☐ Saint Lucia (LCA)
- ☐ Saint Martin (MAF)
- ☐ Saint Pierre and Miquelon (SPM)
- ☐ Saint Vincent and the Grenadines (VCT)
- ☐ Samoa (WSM)

- ☐ San Marino (SMR)
- ☐ Sao Tome and Principe (STP)
- ☐ Saudi Arabia (SAU)
- ☐ Senegal (SEN)
- ☐ Serbia (SRB)
- ☐ Seychelles (SYC)
- ☐ Sierra Leone (SLE)
- ☐ Singapore (SGP)
- ☐ Sint Maarten (SXM)
- ☐ Slovakia (SVK)
- ☐ Slovenia (SVN)
- ☐ Solomon Islands (SLB)
- ☐ Somalia (SOM)
- ☐ South Africa (ZAF)
- ☐ South Sudan (SSD)
- ☐ Spain (ESP)
- ☐ Sri Lanka (LKA)
- ☐ Sudan (SDN)
- ☐ Suriname (SUR)
- ☐ Swaziland (SWZ)
- ☐ Sweden (SWE)
- ☐ Switzerland (CHE)
- ☐ Syria (SYR)
- ☐ Taiwan (TWN)
- ☐ Tajikistan (TJK)
- ☐ Tanzania (TZA)
- ☐ Thailand (THA)
- ☐ Timor-Leste (TLS)
- ☐ Togo (TGO)
- ☐ Tonga (TON)
- ☐ Trinidad and Tobago (TTO)
- ☐ Tunisia (TUN)
- ☐ Turkey (TUR)
- ☐ Turkmenistan (TKM)
- ☐ Tuvalu (TUV)

- ☐ Uganda (UGA)
- ☐ Ukraine (UKR)
- ☐ United Arab Emirates (ARE)
- ☐ United Kingdom (GBR)
- ☐ United States (USA)
- ☐ Uruguay (URY)
- ☐ Uzbekistan (UZB)
- ☐ Vanuatu (VUT)
- ☐ Venezuela (VEN)
- ☐ Vietnam (VNM)
- ☐ Virgin Islands (VGB)
- ☐ West Bank (WBG)
- ☐ Yemen (YEM)
- ☐ Zambia (ZMB)
- ☐ Zimbabwe (ZWE)

5. About your current project: How many people are involved in your team? \*

*Mark only one oval.*

- ☐ 1-5
- ☐ 6-10
- ☐ 11-20
- ☐ 21-40
- ☐ Other: \_\_\_\_\_



6. Your primary programming language? \*

*Mark only one oval.*

- ☐ C/C++
- ☐ C#
- ☐ Go
- ☐ Java
- ☐ JavaScript
- ☐ Kotlin
- ☐ Objective-C
- ☐ Perl
- ☐ PHP
- ☐ Python
- ☐ R
- ☐ Ruby
- ☐ Rust
- ☐ Scala
- ☐ SQL
- ☐ Swift
- ☐ TypeScript
- ☐ Visual Basic
- ☐ Other: \_\_\_\_\_

7. How knowledgeable are you about information security? \*

*Mark only one oval.*

- ☐ Not at all
- ☐ Slightly
- ☐ Moderately
- ☐ Very
- ☐ Extremely

8. Do you have experience with smart contracts? \*

*Mark only one oval.*

☐ Yes

☐ No

#### Smart Contract Specific Experience

9. For about how many years have you been developing smart contracts? (Please input a number, decimals okay) \*

\_\_\_\_\_

10. What best describes the primary blockchain platform you currently work on? \*

*Mark only one oval.*

☐ Public blockchain

☐ Consortium blockchain

☐ Private blockchain

☐ Other: \_\_\_\_\_

11. What best describes the blockchains you currently work on? (Please select all that apply) \*

*Tick all that apply.*

☐ Aeternity

☐ Bitcoin

☐ Ethereum

☐ EOS

☐ Hyperledger Fabric

☐ RSK

☐ Stellar

☐ Tezos

☐ Waves

Other: ☐ \_\_\_\_\_



14. About your team: Primary life cycle model? \*

*Mark only one oval.*

- ☐ Waterfall
- ☐ Iterative
- ☐ Agile
- ☐ Other: \_\_\_\_\_

15. How often does your team release a new version of smart contracts over the past two years? \*

*Mark only one oval.*

- ☐ Never
- ☐ Annually
- ☐ Quarterly
- ☐ Monthly
- ☐ Weekly
- ☐ Daily

### Smart Contract: Security Awareness

16. Have you ever experienced a security issue with the smart contracts your team has developed? (Please select all that apply) \*

*Tick all that apply.*

- ☐ Yes, we experienced a security breach.
- ☐ Yes, a vulnerability in shipped code was discovered.
- ☐ Yes, a vulnerability in unshipped code was discovered.
- ☐ No, we have never experienced a security issue.
- ☐ I don't know or prefer not to answer.

Other: ☐ \_\_\_\_\_

17. Which resources do you use to gain security knowledge for smart contracts?  
(Please select all that apply) \*

*Tick all that apply.*

- ☐ Research Papers
- ☐ Official Forums of Blockchain Platforms
- ☐ Latest News (e.g., coindesk)
- ☐ Question and Answer Websites (e.g., Stack Overflow)
- ☐ Blockchain Security Companies (e.g., OpenZeppelin)

Other: ☐ \_\_\_\_\_

Please kindly rate each statement, with respect to your experience with the primary blockchain you specified above.

18. I care about smart contract security because: \*

Mark only one oval per row.

[illegible]

attacks on smart  
contracts deployed to  
blockchains.

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20. Why do you or don't you think security is important to smart contracts?  
(Optional)

## Smart Contract: Security Practices

21. As a percentage, how much of your team's overall effort in the development life cycle relates to \*security tasks\*? (Please input a number between 0-100) \*

22. How does your team consider security among the following stages? \*

Mark only one oval per row.

[illegible]

23. Has the development of your smart contracts ever got support from security experts? \*

Mark only one oval.

- ☐ Yes
- ☐ No
- ☐ I don't know.

24. How frequently does your team use each of the following strategies to identify security problems in smart contracts? \*

Mark only one oval per row.

[illegible]

25. What other strategies (if any) does your team use to ensure smart contract security? (Optional)

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26. How frequently does your team use each of the following techniques to ensure the security and privacy of smart contracts? \*

*Mark only one oval per row.*

	Very Rarely	Rarely	Sometimes	Often	Very Often	I don't know.
Input validation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Bytecode hardening	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Access control enforcement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Avoid improper use of functions (e.g., DelegateCall())	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

27. What other techniques (if any) does your team use to ensure smart contract security? (Optional)

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28. How frequently does your team use each of the following tools to ensure the security and privacy of smart contracts? \*

Mark only one oval per row.

	Very Rarely	Rarely	Sometimes	Often	Very Often	I don't know.
Formal verification tool (e.g., Boogie)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Fuzzer (e.g., ILF and Echidna)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Reverse engineering tool	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Security plugin in IDE (e.g., Remix)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mythril	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Oyente	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
SmartCheck	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Slither	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

29. What other tools (if any) does your team use to ensure smart contract security? (Optional)

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30. What are the limitations of security tools for smart contracts that you are aware of? (Optional)

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32. Could you please brainstorm an ideal tool for ensuring smart contract security?  
It can be as fancy as whatever you can think of. (Optional)

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