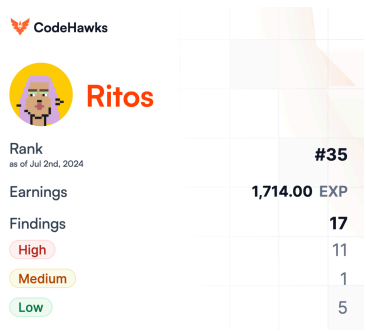# Margarita Sukhova

0xritos@gmail.com | @ritos4934

Smart Contract Auditor

About me

I am passionate about auditing and can't wait to dive into it professionally.
I have a solid background in programming and design, fuelled by enthusiasm, discipline, and a strong desire to explore new challenges.

Stats from
 https://codehawks.cyfrin.io
(Individual First Flights)

CodeHawks

Ritos

Rank as of Jul 2nd, 2024	#35
Earnings	1,714.00 EXP
Findings	17
High	11
Medium	1
Low	5

Professional Experience

Mar 2024 - Jun 2024, Junior Auditor, MixBytes

I've conducted 3 audits as part of the team. I've identified unique critical and high-severity vulnerabilities.
These included vectors such as:
> wrong logic for borrowing invariant leading to DoS attack over time
> a specific method to manipulate the value of collateral.
In addition to audits:
> investigating hacks,
> reading the decompiled code,
> replaying the hack on mainnet fork,
> writing scripts to deploy an AAVE V2 fork,
> designing and implementing the architecture for a voting DAO protocol without freezing tokens,
> implementing stateful and stateless tests,
> implementing "Poison token".
Tools Used: Manual review, Brownie, Hardhat, Foundry, Slither, Git

Dec 2020 — 2023, Senior iOS Engineer, VimpelCom Ltd, Moscow, Russia
> Was responsible for design and implementation of main components of the app
> Designed and developed components for the global design system of the app
> Designed and developed components for the core layer of the app
> Refactored the architecture of the app routing module
> Mentorship
> Code review
> Covered feature with unit tests
Tools Used: Git, Swift, SwiftUI, UIKit, GCD, RxSwift, Autolayout, Clean Architecture

Dec 2017 — 2020, Middle iOS Engineer -> iOS Team Lead, «Rambler&Co», Moscow, Russia
> Developed main features of the app
> Designed and developed architect of the app from the scratch
> Work as a team lead for iOS team of 3 people
> Code review
> Designed and developed features for featuring with App Store
Tools Used: Git, Swift, UIKit, GCD, Autolayout, Clean Architecture, ARKit, GraphQL (Apollo iOS)

Feb 2014 — 2017, Fullstack Software Engineer (for CPA projects based on PHP), Sole Proprietor Godin, Bryansk, Russia
Tools Used: Git, PHP, Yii framework, PostgreSQL, MySQL, Redis, MongoDB, SQL

Education

2009 - 2014, Specialist degree, Computer Science
Bryansk State Technological University, Russia

I was taking part in **ACM ICPC** of the central region of Russia as a member of university team

Sep 2023 — Dec 2023, MIXBYTES FARM

Theoretical skills: Ethereum architecture, Solidity, EVM, DeFI protocols code review, DeFi vulnerabilities, DeFi hacks
CTF: 5 of 5 tasks completed
Final audit: completed

SBT token transfer for successful participator:
https://polygonscan.com/tx/0x1bdb0b22398404782e5a71e078cb7e41eccedcdbedac14b0244fc4024d3821e9

More info about course: https://mixbytes.io/farm