Rasul Yunusov

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Education

- **National Research ITMO University** — St. Petersburg, Russia
  Bachelor's degree in Computer Science — *Sept. 2019 - Aug. 2023*
  - **Relevant courses**: Blockchain Development, Graph Theory, Applied Math, C++/C
  - **GPA**: 4.5/5.0
- **Moscow Workshops Juniors** — Moscow, Russia
  Competitive programming training camp — *Jan. 2019 - Feb. 2019*
  - **GPA**: 4.7/5.0

Skills

- **Languages**: Solidity, C++/C, JavaScript
- **Technologies**: Echidna, Manticore, Slither, Hardhat, Foundary, Brownie, Git

Professional Experience

- **MixBytes** — Remote
  Blockchain Security Engineer, Auditor — *Jun. 2022 -*
  Solidity | JavaScript | Yul
  - **Completed 50+ smart-contract audits** for protocols related to DeFi in the auditing team.
  - **Worked** with one the most popular protocols like: **1inch, AAVE, Curve Finance, etc..**
  - **Utilized** some great security analyzers from Trail Of Bits like: **echidna for fuzzing, manticore, slither, etc..**
  - **Learned** some valuable security patterns that protocols should follow along with unique attack vectors(e.g. involving flash loans to manipulate with oracles)
- **GreensFI** — Remote
  Freelance Solidity Engineer, Contract — *May 2022 - Jul. 2022*
  Solidity | JavaScript | ERC721A/ERC1155
  - **Implemented** several smart-contracts for the game items based on **ERC721A** and **ERC1155** standards for **NFTs**
  - **Integrated EIP-2335** to have an upgradeable functionality by using **Diamond proxy**
  - **Covered** different use-cases with unit-tests written by using Moch-Chai frameworks
  - **Reviewed** smart-contracts by using **Mythril** and **Slither** to find some common vulnerabilities
  - **Deployed** to **Rinkeby** test network in order to test before the main deployment process.
- **Immunefi/Code4rena** — Remote
  Freelance Auditor — *May 2022 - Jul. 2022*
  Solidity | JavaScript | Yul
  - **Started** to look for different bug bounty programs and already got some prize awards from different DeFi protocols
  - **Reviewed** about 30 protocols on Code4rena and learned a lot from public reports
  - **Tried** to find some low-medium severity issues on Immunefi and successfully mitigated them in protocols: **Mean Finance, SuperBots, Ease, etc...**
- **GraphOnline [Open Source]** — St. Petersburg, Russia
  Contributor — *May. 2021 - Aug. 2021*
  Javascript | C++ | XML | GTest | DSA
  - **Designed and implemented solution** to compute max clique of given graph by using C++ and DSA
  - **Improved time complexity** of the single-source shortest path algorithm after **contributing SPFA approach** written on Javascript
  - **Covered** all sources by using Google Test Framework and wrote couple of custom tests using XML
  - **Resulted in** an increasing site traffic **by 12% after deploying innovative technologies**

Publications and Courses

- **Published** Ford-Fulkerson algorithm's explanation on **Habr.com** and got positive feedback **out of 6.5k+ views**
- **Published** Minimum Spanning Tree algorithm's explanation on **Habr.com** and got positive feedback **out of 2.5k+ views**
- **Published** an efficient implementation of Ford-Bellman algorithm using SPFA approach and got positive feedback **out of 4.0k+ views**