

ALIAKSANDR SHAUTSOU

PERSONAL INFORMATION

29 years old

email randomlogin76@gmail.com

website yyyyyy.io

location Paris, France

BIO

WORK EXPERIENCE

	2024	Developer
Handshake	Open source implementation of stateless DANE protocol for Handshake	
	2021–2023	
Web3 projects	API development for youba wallet, infrastructure for various NFT projects, smart contract development, sales organization, backend and server management, web3 hackathons; various private projects not oriented on product delivery.	
	2020–2021	
Handshake	Developer for the blockchain-based open and free alternative for Domain Name System. Working on the node, web wallet and blockchain explorer.	
	2019–2020	Security Analyst
FutureComes	Security audits for internet projects: testing network security, personal data leaks, correction of implementation of cryptographic algorithms and blockchain protocols.	
	2019	Smart contract developer
Dexpa.io	Porting Ethereum smart contracts to the TON blockchain. Communicating with TON labs for testing and debugging TON blockchain SDK.	
	2017–2018	Technical Consultant
Array.io	Participating in the working group on the creation of the new blockchain. Consulting about cryptography usage, modifying the consensus algorithm and the work of virtual machine, constructing built-in name service, implementing backward compatibility with Ethereum smart contracts.	
	2017–2018	Executive officer and software architect
Jury.online	Responsibilities: whitepaper creation, smart contract development, pitching and presenting project, leading the team of developers, communication with investors, clients and partners.	
	Summer 2015	Intern
Belarusian Academy of Sciences	University internship at Institute of Mathematics. Supervisor: Yanchevski I. Vyacheslav.	
	2012–2016, 2019	Freelancer
	Small web projects: maintenance of cryptographic ruby gem, proof-of-concept implementations, smart contract creation, consulting.	

EDUCATION

Master's in Mathematical Logic and Foundations of Computer Science	2021-2022	Université Paris Cité	Theoretical computer science and logic, foundations of mathematics. Graduating paper about Algorithmic Randomness.
	2018-2019	Higher School of Economics	I was studying quantum physics, differential geometry, algebraic geometry, linguistics, Lie theory, model theory, category theory.
	2012-2019	Independent University of Moscow	Took courses in algebra, geometry, algebraic number theory, combinatorics, cosmology, symbolic dynamics, topology.
Specialist's degree in Mathematics	2012-2016	Belarusian State University	Took courses in abstract and applied mathematics: computer science, discrete mathematics, algorithms, cryptography, mechanics, algebra, topology, geometry, differential equations, functional analysis, complex analysis. Thesis: <i>Density of Cartan Subalgebras in the Manifold of Abelian Subalgebras of Semisimple Complex Lie Algebras</i> . Term paper: <i>Application of Seifert—van Kampen Theorem to the Knot Theory</i> .
	2011-2012	Moscow Institute of Physics and Technology	Took courses in general physics and its mathematical foundations: linear algebra, mathematical analysis, differential equations.
Department of General and Applied Physics			

ARTICLES

- 2022 [Memoire about Algorithmic Randomness](#)
- 2016 Educational articles about cryptographic primitives:
[AES](#)
[Hashing algorithms](#)
[Diffie-Hellman key exchange](#)
[Pseudo-random number generators](#)

COMPUTER SKILLS

Programming languages	Python, Solidity, javascript, Ruby, Haskell, Matlab, Wolfram, Golang, \LaTeX .
Stack	Django, node.js, Ethereum, web3 tools, Bitcoin, SQL, git, Google Cloud, AWS, Docker, bash, Linux, numpy.

OTHER INFORMATION

Interests Cycling · electronic music