

ALIAKSANDR SHAUTSOU

PERSONAL INFORMATION

28 years old

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location Paris, France

BIO

WORK EXPERIENCE

NFT projects	2021–2022	Developer	Was building infrastructure for various NFT projects: image generation, smart contract development, sales organization, backend and server management. <i>Logarithms, Exponentials.</i>
	2020–2021	Developer	Developer for the blockchain-based open and free alternative for Domain Name System. Working on the node, web wallet and <i>blockchain explorer</i> .
Handshake	2019–2020	Security Analyst	Security audition for internet projects: testing network security, personal data leaks, correction of implementation of cryptographic algorithms and blockchain protocols.
FutureComes	2019	Smart contract developer	Porting Ethereum smart contracts to the TON blockchain. Communicating with TON labs for testing and debugging TON blockchain SDK.
Dexpa.io	2017–2018	Technical Consultant	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.
Array.io	2017–2018	CEO	Russian-Korean ICO startup. Responsibilities: creating of the whitepaper, smart contract development, pitching and presenting project, leading the team of developers, communication with investors, clients and partners.
Jury.online	Summer 2015	Intern	University internship at Institute of Mathematics. Supervisor: Yanchevski I. Vyacheslav.
Belarusian Academy of Sciences	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.
	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> .
Specialist's degree in Mathematics	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, Ruby, Haskell, Matlab, Wolfram, Golang \LaTeX .
Stack	Django, node.js, Ethereum, web3, Bitcoin, SQL, git, Google Cloud, AWS, Docker, bash, Linux.

OTHER INFORMATION

Interests Cycling · electronic music