ALIAKSANDR SHAUTSOU

PERSONAL INFORMATION

29 years old

email	randomlogin76@gmail.com
website	yyyyy.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 Algortihmic Randomness.

Master's programme in Mathematics

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: *Density of Cartan Subalgebras in the Manifold of Abelian Subalgebras of Semisimple Complex Lie Algebras.*
Term paper: *Application of Seifert—van Kampen Theorem to the Knot Theory.*

Department of General and Applied Physics

2011-2012   Moscow Institute of Physics and Technology

Took courses in general physics and its mathematical foundations: linear algebra, mathematical analysis, differential equations.

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