

# ALIAKSANDR SHAUTSOU

## PERSONAL INFORMATION

29 years old

*email* randomlogin76@gmail.com

*website* yyyyyy.io

*location* Paris, France

## BIO

## WORK EXPERIENCE

2024 Software engineer

*AFF Protocol*

Affiliate marketing protocol for web3: smart-contracts, backend, JS library, documentation.

*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

<i>Master's in Mathematical Logic and Foundations of Computer Science</i>	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.
<i>Master's programme in Mathematics</i>	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> .
<i>Specialist's degree in Mathematics</i>	2011-2012	Moscow Institute of Physics and Technology	Took courses in general physics and its mathematical foundations: linear algebra, mathematical analysis, differential equations.
<i>Department of General and Applied Physics</i>			

## EDUCATIONAL ARTICLES

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