

CONTACTS

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EDUCATION

PhD in cryptography Ecole Polytechnique Paris 2019-2022

Msc in Electronics

2014-2016

Bsc in Electronics INP Bordeaux

2011-2014

Software

- Go, Rust, C, C++, Python, JavaScript, Solidity
- Linux, Git, LaTeX, Vim :)

Languages

• English, French, Arabic, Spanish

Misc

- Soccer 2000-2011 (national and regional)
- Mathematical olympiads 2007-2011

Youssef El Housni Applied Cryptographer

Hello, I'm Youssef

I am a French-Moroccan cryptographer interested in zero-knowledge proofs, elliptic curve and pairing-based cryptography. I like to contribute to open-source implementation projects and am enthusiastic about blockhain technology with focus on privacy-preserving solutions.

EXPERIENCE

2020-	Senior Applied researcher ConsenSys
Present	My work at ConsenSys consists in developing a zero-knowledge cryptography open-source ecosystem in Go. My focuses range from implementing novel and efficient primitives to building high-level
Paris	protocols.
	• github.com/ConsenSys/gnark-crypto
	• github.com/ConsenSys/gnark
2018-2020	Senior Consultant Ernst & Young
Paris	I worked on various projects ranging from financial services consulting to low-level cryptography implementation.
	Design and implementation of privacy-
	preserving blockchain-based solutions to
	financial services clients (Solidity, JavaScript).Contributed to Nightfall by optimising the low
	level cryptographic operations (C++, Rust)
	• Contributed to Baseline by implementing the
	low level cryptographic operations (Rust)
2016-2018	R&D engineer SECURE-IC
Rennes	I worked on various tasks related to harware and software implementations and mathematical modelling.
	Implementation of a video steganography
	toolkit in C for embedded devices.Implementation of countermeasures to side-
	channel attacks on curves cryptography in
	hardware (VHDL) and software (C).
	Conception of stochastic models and
	statistical tests for hardware TRNG and PUF.