Bringing real-world identity on-chain

The future of authentication

Yanis

Anon Aadhaar, PSE

Sign in
Use your Google Account
Email or phone
Forgot email?
Not your computer? Use Guest mode to sign in privately. Learn more
Create account
Next
English (United States)
Help
Privacy
Terms

RÉPUBLIQUE FRANÇAISE
CARTE NATIONALE D'IDENTITÉ / IDENTITY CARD
FR
NOM / Surname
MARTIN
Prénoms / Given names
Maëlys-Gaëlle, Marie
SEXE / Sex
F
NATIONALITÉ / Nationality
FRA
LIEU DE NAISSANCE / Place of birth
PARIS
DATE DE NAISS. / Date of birth
13 07 1990
NOM D'USAGE / Alternate name
NOM D'USAGE
N° DU DOCUMENT / Document No.
X4RTBPFW4
DATE D'EXPIR. / Expiry date
11 02 2030
Signature
384213

Introduction to Identity Document Signatures

M: Signed Message, usually a blob of data representing your identity attributes (e.g. `Alice041090Brussels`)

S: Signature

Zk-SNARKs

Public input
Private input
ZK-SNARK proves that the output is True
The function being evaluated
f(x, w) =
True
False

Zk-SNARKs Applied to Signature Verification

Anon Aadhaar

Anon Aadhaar allows you to create a proof of your Aadhaar ID without revealing any personal data. This process is local to your browser for privacy, and QR images are not uploaded to any server.

Note: Internet speed may affect processing time.

GENERATE A QR CODE:

Open mAadhaar app iOS or Android
By entering your Aadhaar number and OTP verification. You can then save the QR as an image using the 'Share' button for import.

UPLOAD YOUR AADHAAR SECURE QR CODE:

Choose file

aadhaar.png

Valid QR Code.

CONTINUE

No Aadhaar data ever leaves your device!

YOUR QR CODE IS VERIFIED!

Data you are sharing to The current application:

- AGE ABOVE 18
- GENDER
- PIN CODE
- STATE

Data you are signing:

0x3e2AB0e12Af65E02e9096e8D0D0Cf83A63A8CEB7

GENERATE ANON AADHAAR PROOF

No Aadhaar data ever leaves your device!

Use Cases

- **Authentication:** Target Specific Countries, Age, …
- **Anti-Sybil Mechanisms**: Voting, Quadratic Voting, Quadratic Funding
- **Know Your Customer (KYC)**: Privacy-Preserving Verification, Selective Disclosure
- **Wallet Recovery**: Identity-Based Recovery

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Other Type of Documents

Other Digital Identity Programs

Program	Format	Region/Country	Verification Method
Passports, ICAO TD3	NFC	Worldwide 🌍	Digital signature in NFC chip
EU ID cards, ICAO TD1	NFC	Europe 🇪🇺	Digital signature in NFC chip
Aadhaar	PDF, QR Code	India 🇮🇳	Digital signature in QR code
Argentina ID-1	NFC	Argentina 🇦🇷	Digital signature in NFC chip
Firma Digital	Physical card	Costa Rica 🇨🇷	Digital signature in physical card
Singpass	NFC, QR Code	Singapore 🇸🇬	QR code or NFC verification via mobile app
Carteira de Identidade Nacional (CIN)	Blockchain, Digital ID	Brazil 🇧🇷	Digital signature, blockchain-based verification
My Number Card	NFC	Japan 🇯🇵	Digital signature in NFC chip

Thank you!

Yanis

Software Engineer, PSE

yanis@pse.dev

@yanis_mezn

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“Number rules the universe.”

— Pythagoras

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