17K

DAPPs in EVM

"There are over 17,000 DApps locked in EVM ecosystems. Without a migration path to faster, cheaper settlement layers like QUBIC, they'll miss the next wave of blockchain innovation."

How do I bring my EVM DApp to QUBIC?

Reasoning ˅

Bringing Your EVM DApp to QUBIC

QUBIC is **not EVM-compatible** in the sense of direct Solidity code or Ethereum bytecode deployment. Its smart contracts:

- Are written in **C++**, not Solidity.

- Run via a unique bare-metal execution platform (not the EVM virtual machine).

- Use a quorum-based consensus and "tick" system, not blocks.

- Interact via Qubic-specific APIs, RPC, and CLI rather than standard Web3/Ethereum JSON RPC.

https://nebula.thirdweb.com/

How can we create a L2 EVM on CUBIC to bring DAPPs from other blockchains?

"Imagine a DeFi protocol on Ethereum that wants cheaper finality—Universal VM lets it run off-chain logic and anchor critical settlement data on QUBIC, reducing costs by 90% without migrating code."
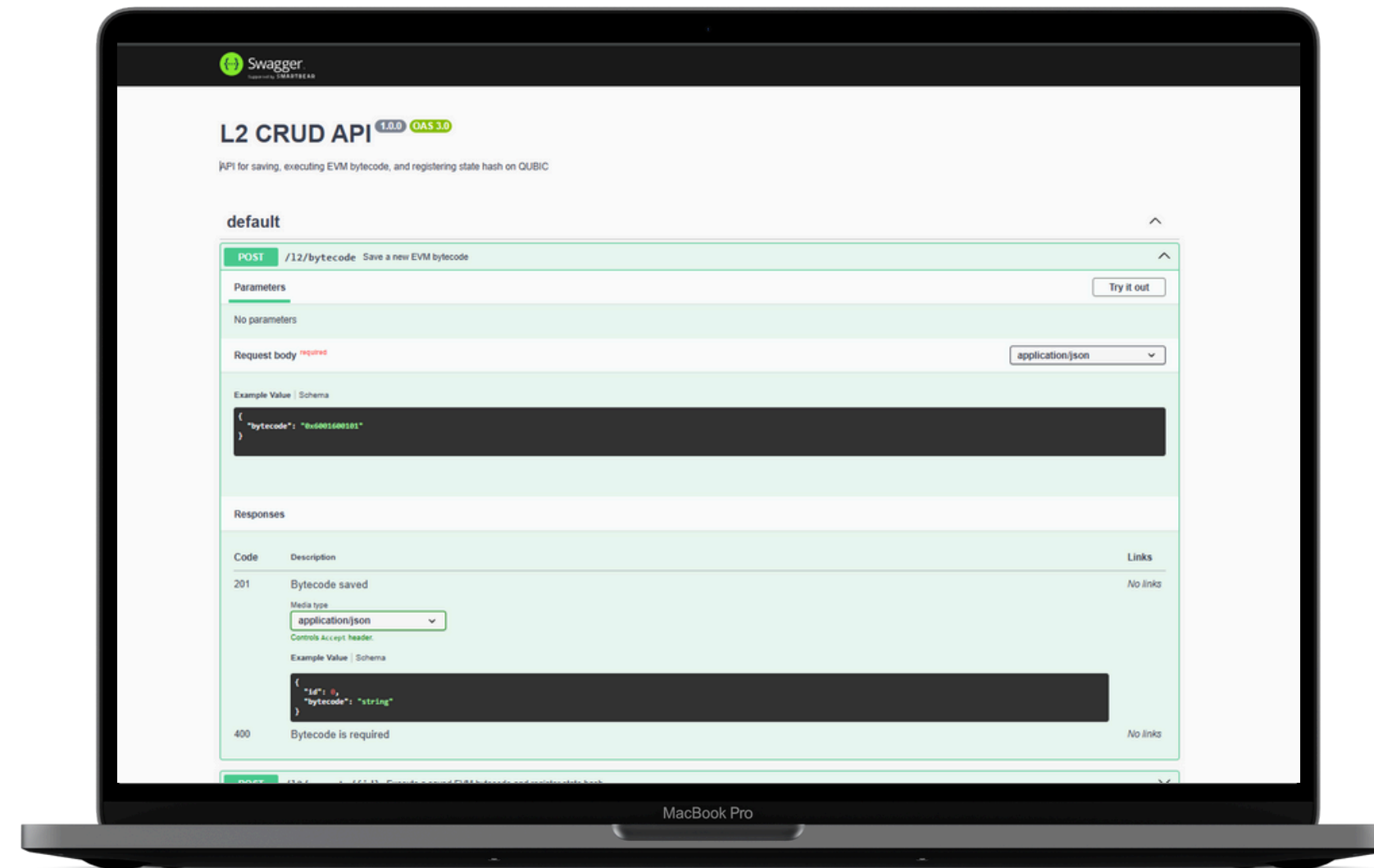
UNIVERSAL VM HUB

A single Layer 2 platform that supports all smart contract languages, with secure final settlement on QUBIC.
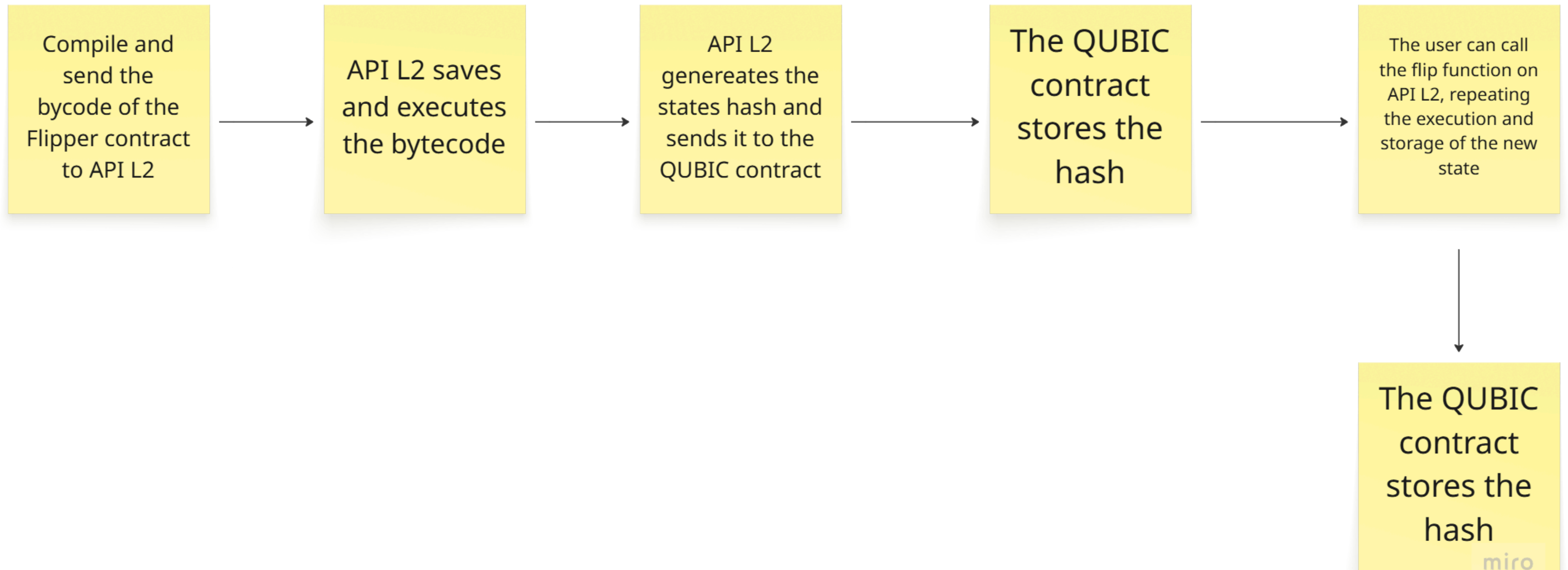
L2 EVM based for settlement

Based RSK Bitcoin

01 Bring DAPPs from other blockchains

02 Bring more developers to the QUBIC

03 Further increase Interoperability

Swagger

L2 CRUD API 1.0.0 OAS 3.0

API for saving, executing EVM bytecode, and registering state hash on QUBIC

default

POST /12/bytecode Save a new EVM bytecode

Parameters   Try it out

No parameters

Request body *required*   application/json

Example Value | Schema

```
{
  "bytecode": "0x6001600101"
}
```

Responses

Code	Description	Links
201	Bytecode saved	No links

Media type

application/json

Controls Accept header.

Example Value | Schema

```
{
  "id": 0,
  "bytecode": "string"
}
```

| 400 | Bytecode is required | No links |

MacBook Pro

How does it work

Compile and send the bycode of the Flipper contract to API L2

→

API L2 saves and executes the bytecode

→

API L2 genereates the states hash and sends it to the QUBIC contract

→

The QUBIC contract stores the hash

→

The user can call the flip function on API L2, repeating the execution and storage of the new state

↓

The QUBIC contract stores the hash

miro

PR in Github

Feature/2025 07 flipper
#471 opened 31 minutes ago by bellujrb

add: hash contract
#470 opened 43 minutes ago by bellujrb

Proposal/2025 07 flipper
#15 opened 34 minutes ago by bellujrb

Proposal: HashStore contract for 32-byte hash storage
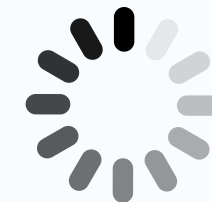#14 opened 45 minutes ago by bellujrb

https://github.com/qubic/core/pulls

https://github.com/qubic/proposal/pulls
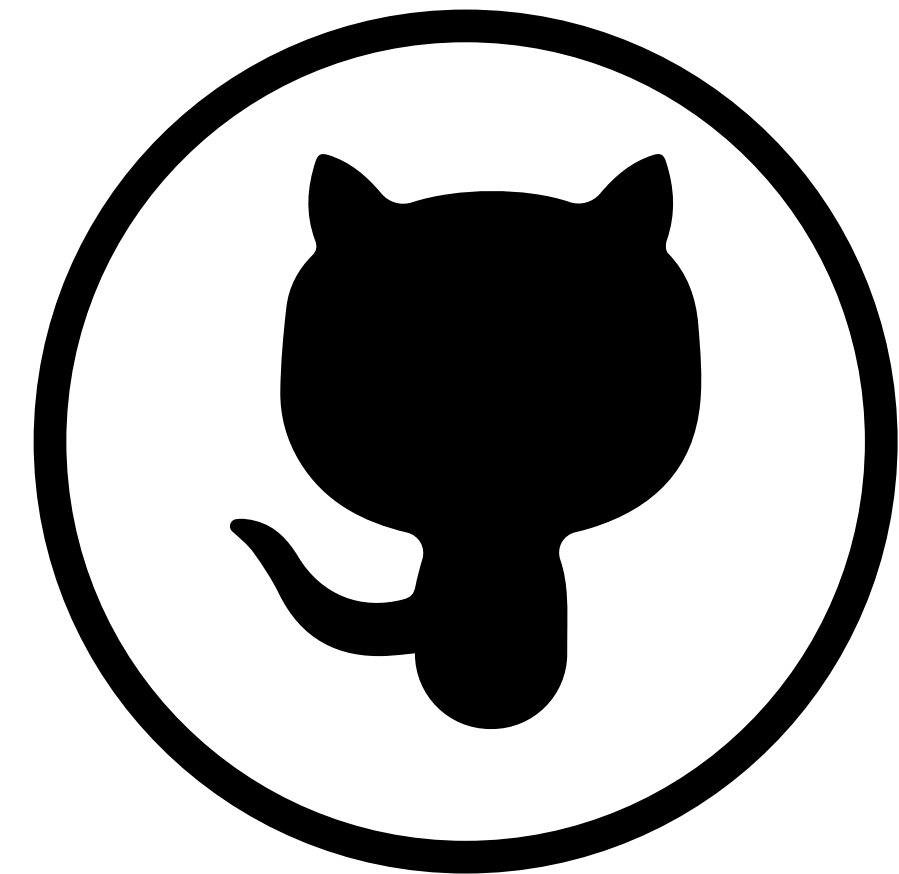
Roadmap

Hackathon PoC for off-chain EVM execution ✅

Migration to Polkadot SDK for scalable architecture

Plugin VM architecture enables multi-language support

Developer ecosystem and onboarding for adoption

Full L2 launch and interoperability layer

L2 EVM-based Settlement on QUBIC

Project Concept

This project demonstrates an L2 solution for EVM-based settlement on QUBIC. The main idea is to:

- Smart contract on QUBIC that stores a 32-byte hash.
- CRUD API (called L2) using Express.js that:
  - Saves EVM bytecode.
  - Executes the bytecode.
  - Saves the resulting state hash on QUBIC using the contract.
- Simple contract called **FLIPPER** that stores a boolean value and has a `flip` function to toggle its state.
- The flow:
  - i. Compile the FLIPPER contract and send it to the L2 API.
  - ii. The L2 API saves the bytecode and, after execution, stores the state hash on QUBIC.
  - iii. You can call the `flip` function to change the contract state, and the L2 will save the new state hash on QUBIC.

This architecture demonstrates how an L2 EVM-based system can interact with QUBIC for secure and transparent state settlement.

Meet the Team

João Belluzzo

Software Engineer

+6 years in technology, including strategic roles and experience as a start-up entrepreneur. Winner of the Bitcoin World Championship, earning 1 BTC.
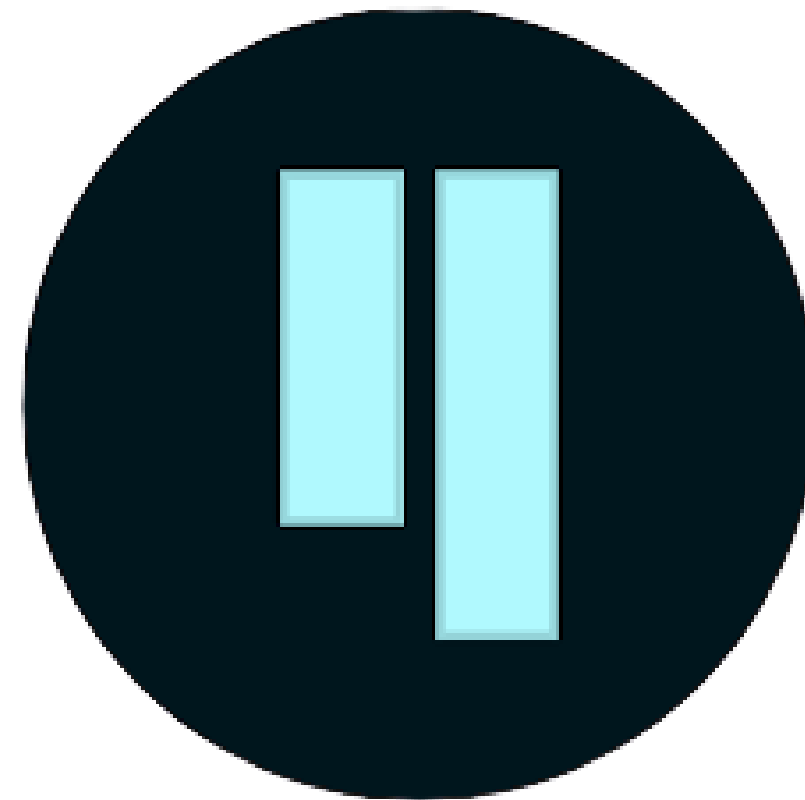
IMPACTA

Jonathan Batista

web3 Dev

+6 years of experience with entrepreneurship and innovation, working with Santander Bank

Santander

USP

"From Solidity to Soroban — all roads lead to QUBIC."

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