

NEAR Data Stack

Easier and Faster with Pagoda

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🗱 Hi - I'm Yijia, Tiffany! 👋

- Product Manager @ Pagoda
- Computer Science, Data Science, Business, Media @ Columbia University + NYU
- Joined NEAR Family in 2020 and founder of **NEAR Data Guild**
- NFT of me! Thank you NEARbits!
- Love traveling, Barca fan, like to mess with my hair color and have a bartending license



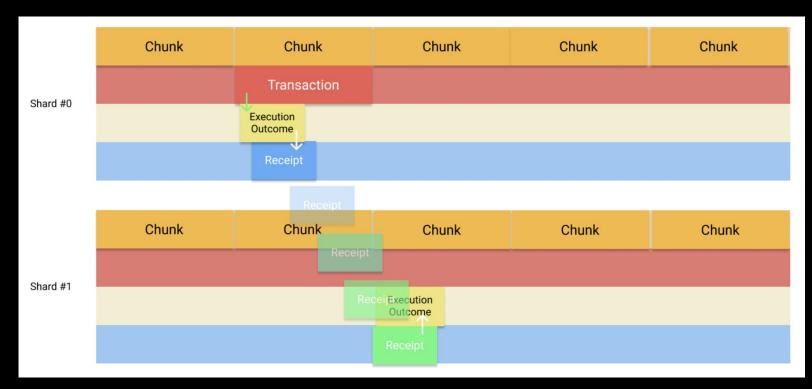




- NEAR Lake
 - Intro + NEAR Data Flow + Events
 - Demo listening on Ref txs
 - NFT Tutorial Walkthrough
- Enhanced API upgraded data query experience
- Pagoda Console deploy in 15 mins with Alerts,
 Analytics, RPC Stats
- NEAR Data Stack Next Step



NEAR Data Flow





NEAR Event Standard

Motivation

NEAR and third-party applications need to track mint, transfer, burn events for all NFT-driven apps consistently. This extension addresses that.

Event Log is what enables this standardization

```
JSON string should have the following interface:

// Interface to capture data about an event
// Arguments
// * `standard`: name of standard, e.g. nep171
// * `version`: e.g. 1.0.0
// * `event`: type of the event, e.g. nft_mint
// * `data`: associate event data. Strictly typed for each set {standard, version, event} inside corres
interface EventLogData {
    standard: string,
    version: string,
    event: string,
    data?: unknown,
}
```



NEAR Event Standard

```
use near_sdk::log;
 // ...
 log!(
      r#"EVENT_JSON:{"standard": "nepXXX", "version": "1.0.0", "event": "YYY", "data": {"token_id": "{}"}
      token id
 // ...
Valid event logs:
 EVENT JSON:{
    "standard": "nepXXX",
    "version": "1.0.0",
                                                                                            There is a known
    "event": "xyz_is_triggered"
                                                                                           limitation of 16kb
                                                                                           strings when
 EVENT JSON:{
    "standard": "nepXXX",
                                                                                           capturing logs
    "version": "1.0.0",
    "event": "xyz_is_triggered",
     "data": {
       "triggered_by": "foundation.near"
```



Beyond Indexer Framework



NEAR Lake: Stream blocks to your server

How does it work?

Define the accounts, contracts, events you want to listen to and get the data streamed to your preferred destination



NEAR Lake: Stream blocks to your server

Reduce monthly costs by 25x

Spin up time reduced by 5x

Low Maintenance

JavaScript, Python, Rust and more

Get started in 6 minutes



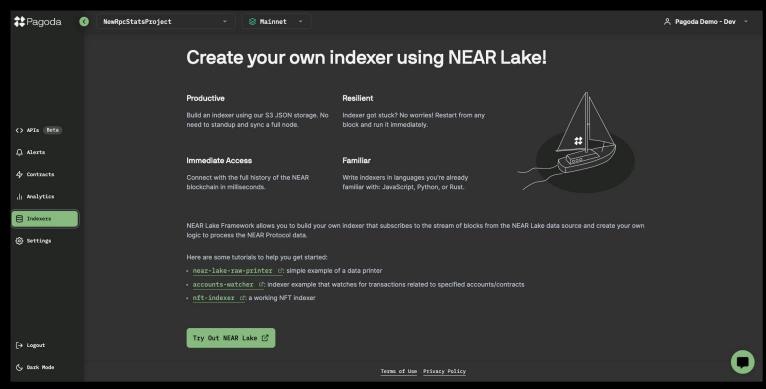


NEAR Lake Demo

Daniel Wang

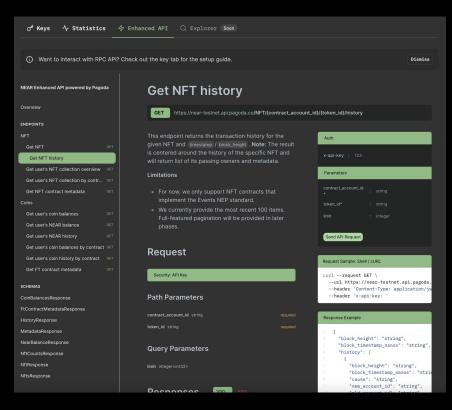


Get started from Pagoda.co!





Enhanced API: Query token balances



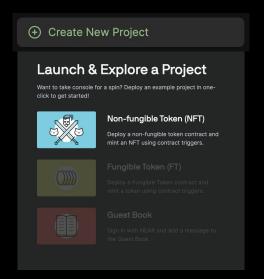
- Indexing over 1k tokens under all NEP standards
- Balances of FTs, NFTs and (MTs soon)
- Balance history
- Metadata of FTs and NFTs
- Interactive Docs in Pagoda!

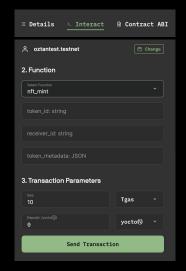
We want Feedback on what other APIs you want to see next! Feedback tool in Console!

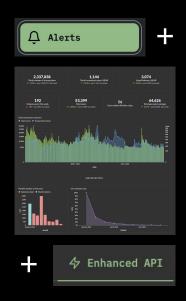
* Support legacy FT and NFT by end of year and more to come in the future!



Build on Pagoda in 15 minutes







Launch Interact Grow



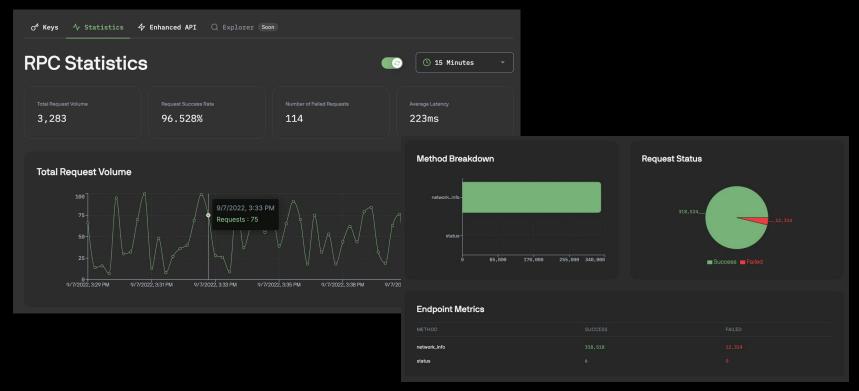
Meet the easiest Web3 Startup Platform.

Pagoda.co





RPC Statistics: Get RPC usage insights





NEAR Data Stack Mission

Unlock the full power of data, accelerate your build, operations and growth

Build better UX

Quick start, less effort on indexers and integrations

More Observability

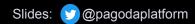
Visibility into your infrastructure and contracts

Business Insights

Customer insights for your growth strategy



NEAR Lake Enhanced API Alerts **RPC Statistics** Analytics

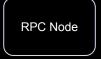




What's Next?



Data infra that just works







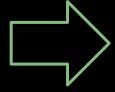


















Questions?

