

Building dApps

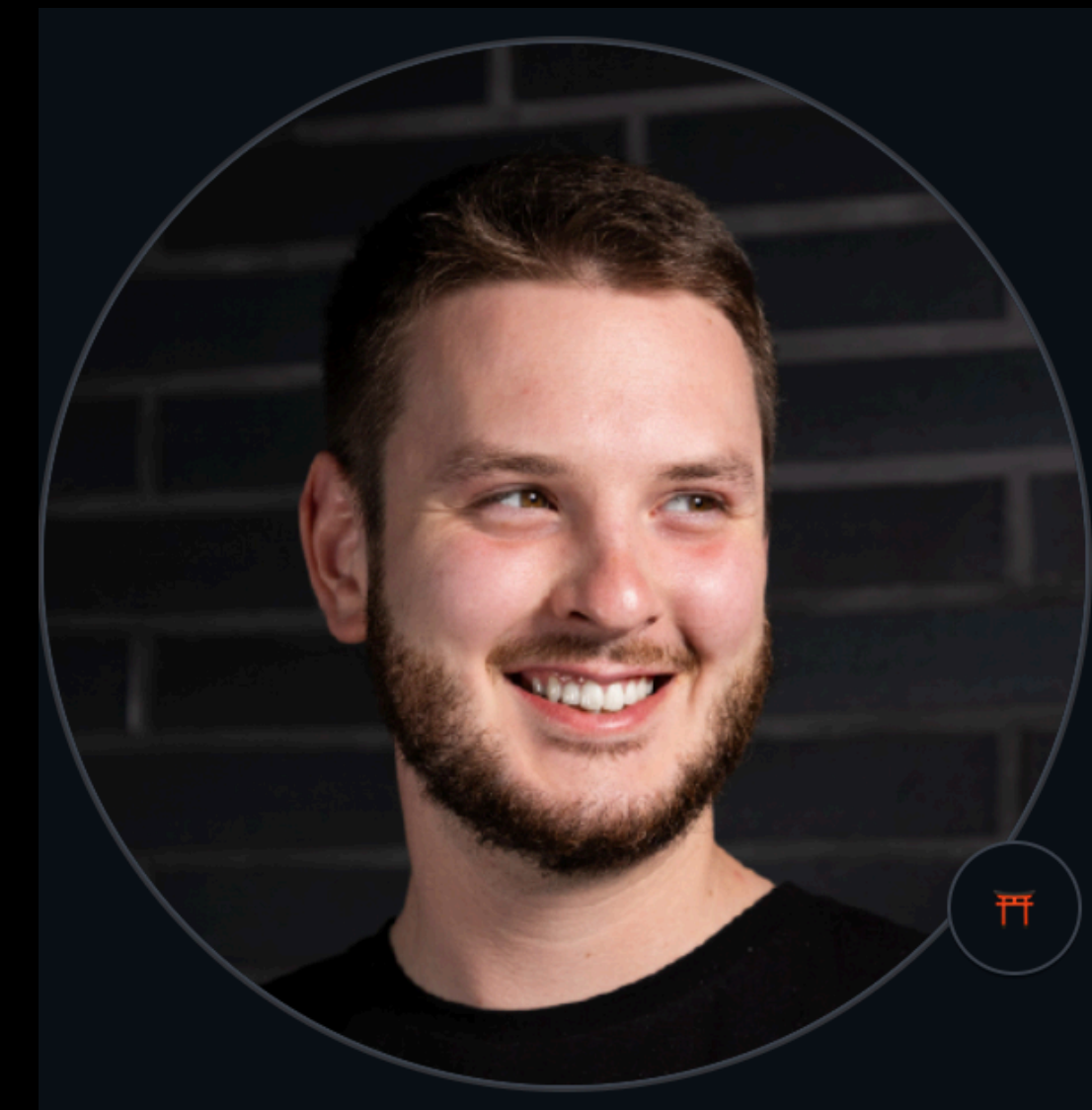
with



February 5th, 2025
Epitech

Who am I?

- Leon Hudak
- DevRel Engineer @ gno.land
- 3.5 yrs in Web3, started with Ethereum
- <https://github.com/leohhhn>



Today's agenda

- Why care about this talk?
- Short intro to Golang
- Intro to Gno & gno.land
- Conclusion

Explore Web3 ecosystems!

- The IT world moves fast
- Things are done differently, with various pros and cons
- Ethereum, Solana, Cosmos, NEAR.....
- Opportunities lie everywhere

What is gno.land ?

- A new blockchain, running a custom virtual machine - the GnoVM
- Allows for writing smart contracts in Gno, an interpreted and fully deterministic version of **Go**

Why Go?

- Go is a simple and straightforward language with a minimal learning curve
- Go has a large developer community, and lots of readily available resources, most of which can be used 1:1 for learning Gno
- Solid collection of performant, well-known standard libraries
- Gives lots of power to developers in spite of its simplicity

Let's try Go

More on Gno...

- Modeled after Go 1.18
- Interpreted instead of compiled
- Currently does not support all go features, such as generics & goroutines
- Unlike Ethereum, all on-chain code lives on a specific package path, such as
`gno.land/r/leon/app`

Anatomy of a Gno package path

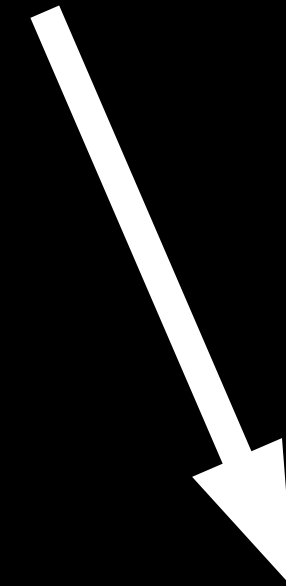
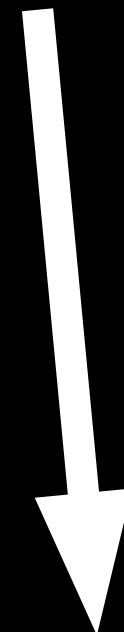
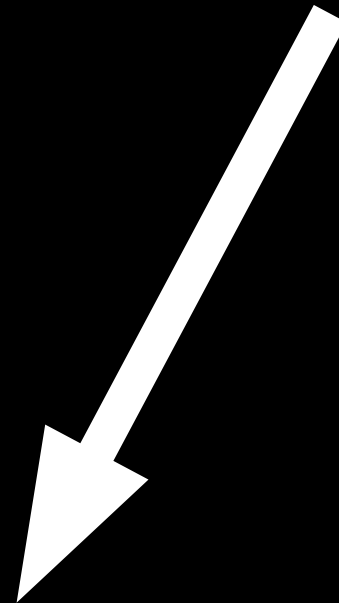
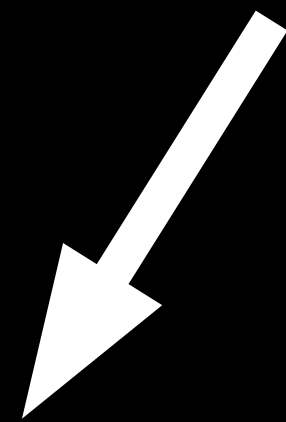
gno.land/r/leon/app

base domain

type

namespace

package name



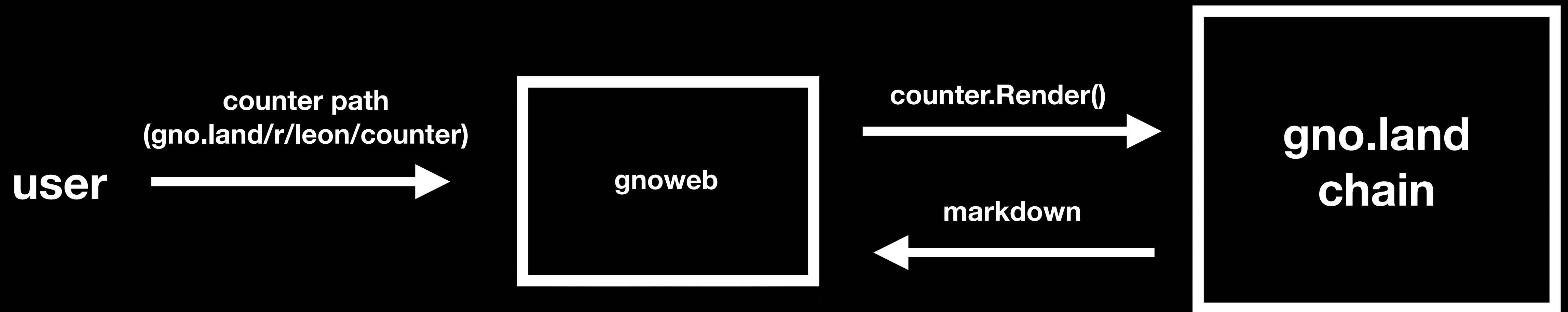
Gno code organization

- Realms, stateful code - “r/”
- On-chain libraries - “p/”
- Standard libraries
- Special “std” package

```
package app

import (
    →      "std"
    →      "strconv"
    →      "strings"
    →
    →      "gno.land/p/demo/avl"
    →      "gno.land/r/demo/users"
)
```

gnoweb & Render



Call for Contributions

- We are looking for early adopters to contribute to gno.land.
- Be among the first to build useful dApps, libraries and work on protocol level problems and make an impact on the future of gno.land.



Linktree (Student program, Grants, etc.)



Feedback form

Thanks!



gno.land



GitHub



Discord