# Monero + L2

HOW A SIMPLE LAYER TWO CAN BENEFIT MONERO AND ITS USERS

## Seth For Privacy

@sethforprivacy

### MONERO CONTRIBUTOR

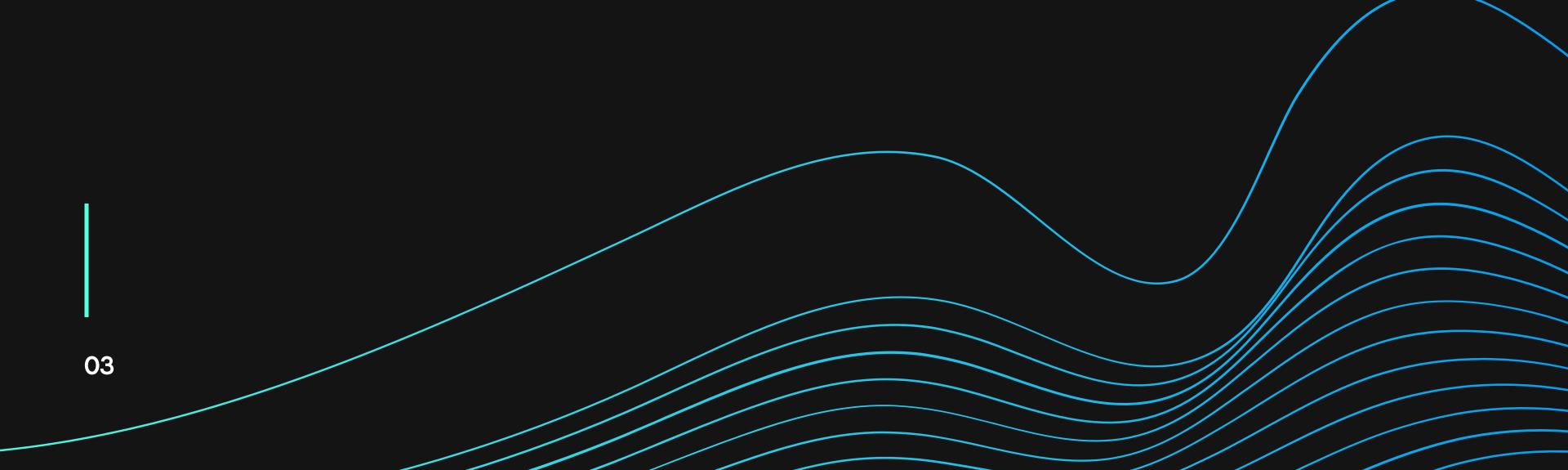
Contributing to Monero for the past 2y in mostly non-dev roles

### **PRIVACY EDUCATOR**

Building out pro-privacy education, guides, and resources, including the Opt Out podcast



# Why does Monero need an L2?



# Privacy via ephemerality

### DEFEATS PASSIVE SURVEILLANCE

Surveillance can only be done actively, not via simple chain analysis.

#### **REDUCES METADATA**

Removes common metadata heuristics like transaction time, spend patterns, etc.

#### **REDUCES FUTURE RISKS**

As transactions are ephemeral, future tracing breakthroughs are less impactful.

# Improved payments

### FURTHER ENABLE MONERO'S L1 SCALING

Leverage Monero's excellent L1 scaling to simplify L2 onboarding and UX.

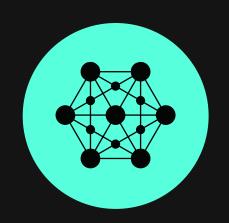
### REDUCED FRICTION FOR COMMERCE

Remove wait for confirmations and 10-block-lock.

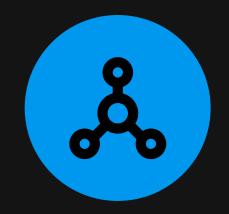


# Learning from Lightning

- LIGHTNING INHERITS PRIVACY AND SCALING ISSUES
- OVER-RELIANCE ON LN TO SOLVE SCALING + PRIVACY PROBLEMS
- MAJORITY OF PAYMENTS LEADS TO OVERLY COMPLEX SYSTEM
- ON-CHAIN FEES + COMPLEX NETWORK LEAD
  TO CENTRALIZED ROUTING HUBS



On-chain privacy leads to far greater node-level privacy in a layer 2



Discovered payment channels reveal no extra information.



Social consensus enables enforcing fungible channel open/close TXs.



Base-layer is not reliant on fees, so we can move as much (or as little) offchain as is helpful.

# Monero's unique benefits for L2s

# How we should differ from the Lightning Network

### SIMPLE DIRECT-CHANNEL APPROACH

No need for all payments to be offchain, so can focus on direct channels and not cross-network routing

### ONLY USE L2 FOR TRUSTED PEOPLE OR FREQUENT SPENDS

Users can easily use L1 w/low fees and strong privacy

### IMPLEMENT STRONG RECEIVER PRIVACY FROM DAY 1

Leverage improvements like BOLT12, alias SCIDs, and route blinding

# Current Approaches

- <u>"PayMo: Payment Channels For Monero"</u>
- "Sleepy Channels: Bitcoin-Compatible Bi-directional Payment Channels without Watchtowers"
- Universal Atomic Swaps: Secure
   Exchange of Coins Across All
   Blockchains

- "AuxChannel: Enabling Efficient
   Bi-Directional Channel for
   Scriptless Blockchains"
- MoNet: A Fast Payment Channel
   Network for Scriptless
   Cryptocurrency Monero



## Conclusion

A simple payment-channel layer two network for Monero can be an important improvement that uniquely benefits from Monero's L1 approach.

## Get in touch



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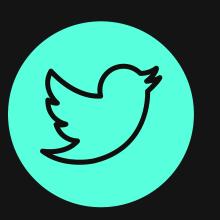
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