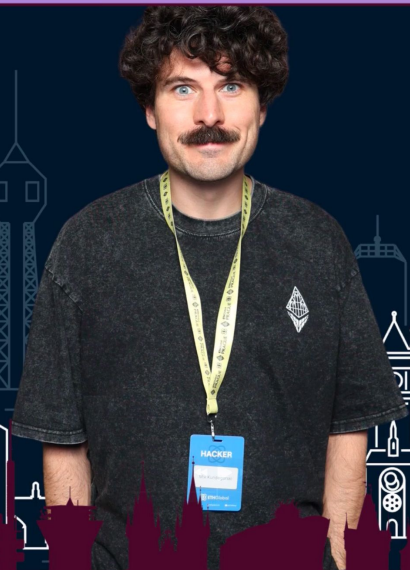


# ROCK- OFF CHAIN



solo hacked: Mix Kundegorski,  
ETHGlobal Prague 2025

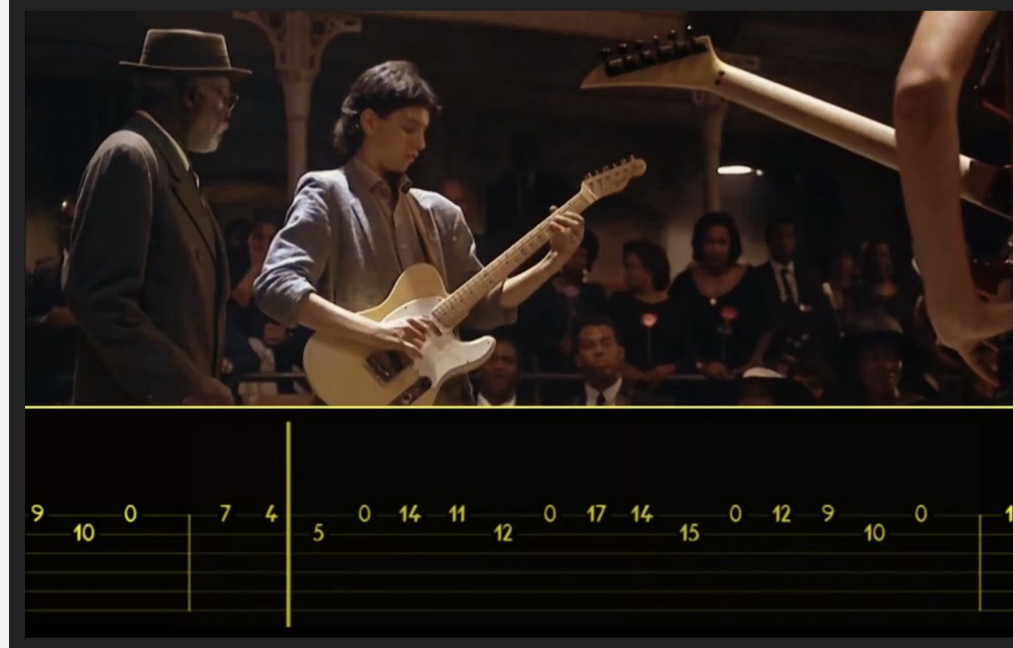


# Real world Problem (for some)



In *Crossroads* (1986), Steve Vai, possibly the best shredder of his time, lost a guitar duel in a random jam session. Mostly because his opponent had taken a pact with the devil, but also because the local audience wasn't particularly unbiased (think: Eurovision).

# Solution! Using real-time Signal Analysis



- player uses funds deposited by the game creator via Nitrolite state channels (ERC-7824) to earn rewards for completing musical tasks set by the app.
- the analysis is performed in real-time using a signal analysis algorithm

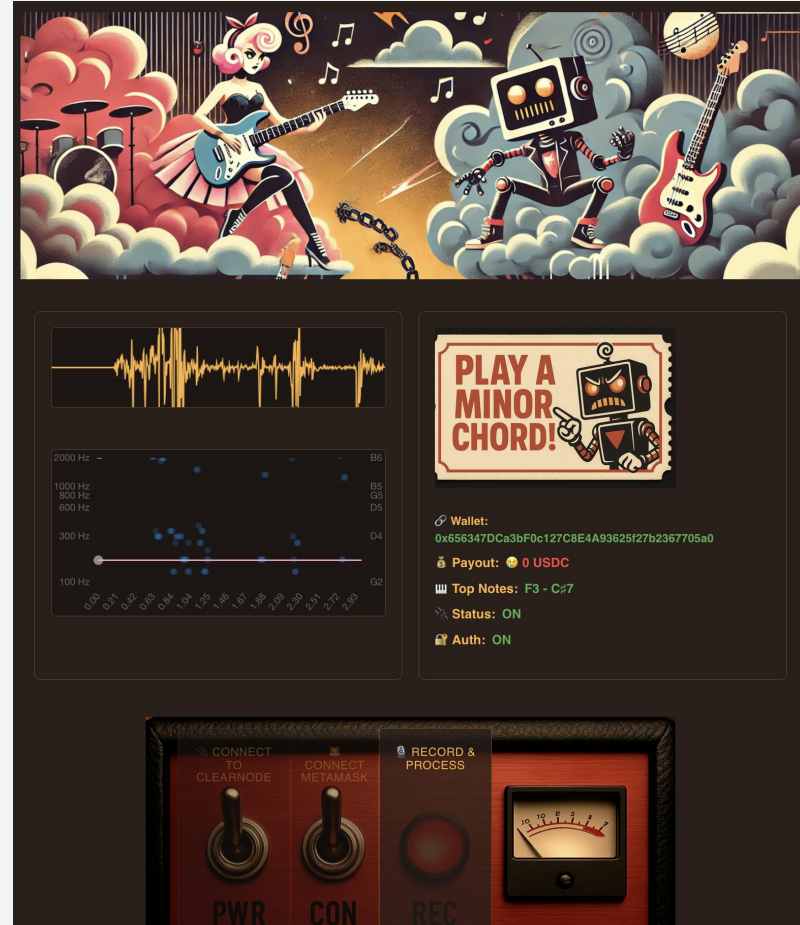
# RockOff Chain MVP

user  
connects to reward pool from a teacher in the  
app channel

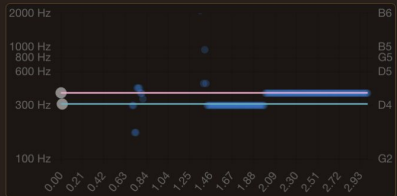
user performs solo

algorithm analysis

rewards settled via state channel







Wallet: 0x656347Dca3bF0c127C8E4A93625f27b2367705a0

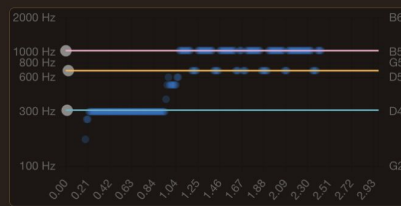
Payout: 0.0001 USDC

You managed a minor chord!

Top Notes: G4 - D#4 - A#7

Status: ON

Auth: ON



Wallet: 0x656347Dca3bF0c127C8E4A93625f27b2367705a0

Payout: 0.00005 USDC

You managed a perfect fifth!

Top Notes: C6 - D#4 - F5

Status: ON

Auth: ON



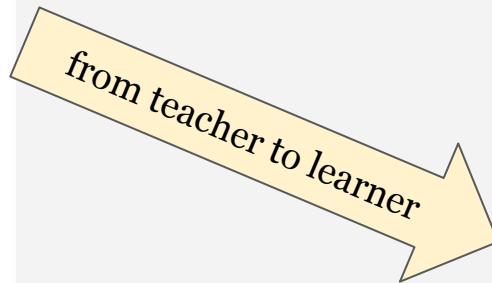
 Clearnet  
\$2.994

 Deposit  
\$0

Apps Channels Sessions Statement Balances

### Account Statement

ID	Account	Asset	Credit	Debit	Date
212	0x9d50c6...7953C9	USDC	-	0.0001	31/05/2025 16:31
196	0x9d50c6...7953C9	USDC	-	0.0001	31/05/2025 16:14



Apps Channels Sessions Statement Balances

Create Channel

### Account Statement

ID	Account	Asset	Credit	Debit	Date
320	0x656347...7705a0	USDC	0.0001	-	31/05/2025 17:28
309	0x656347...7705a0	USDC	0.0001	-	31/05/2025 17:20

# From MVP to OG (Stairway to Heaven on Nitrolite)



Single Player  
(training)

rewards from a  
prefilled wallet

**PvP +  
punters**

bets



**PvP**

wager between  
players

