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Candidate Sales Engineer at Kiln.fi

WELCOME



AGENDA

- Staking
- MEV opportunities
- Ethereum Staking technical implementation
- Delegation flows
- KILN web dashboard
- KILN APIs
- KILN Stats & Security

ATTENDEES

From KILN



**MANUEL
JARABA**

Sales Engineer

From LAPAM Investments *(fake company)*



**MARTIN
JAMES**

Partner



**JOHN
SMITH**

Technical Project
Director



SOME **TRADITIONAL** **FINANCE** WAYS OF MAKING MONEY

BORROWING
AND LENDING

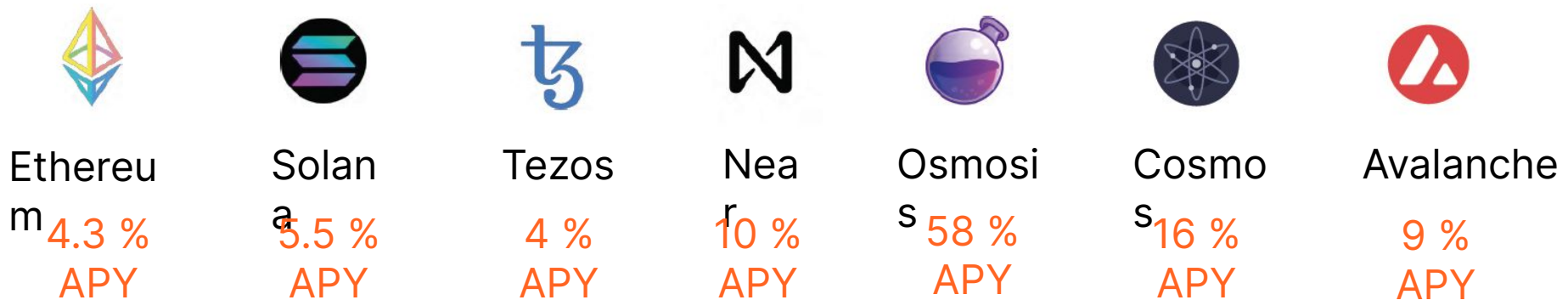
FEE BASED
INCOME

SOME **DECENTRALIZED** **FINANCE** WAYS OF MAKING MONEY

MINING FEES /
BLOCK REWARDS

LIQUIDITY
STAKING

MEV

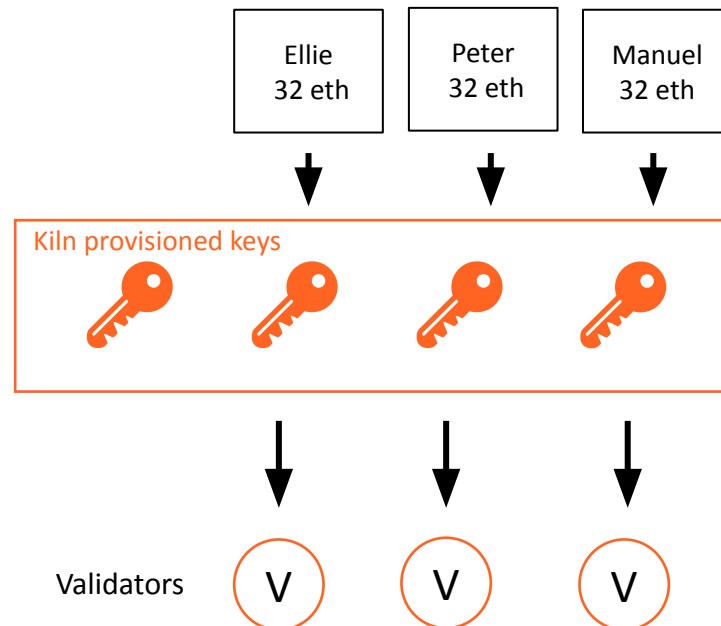


There are locking periods required **

KILN.fi validators

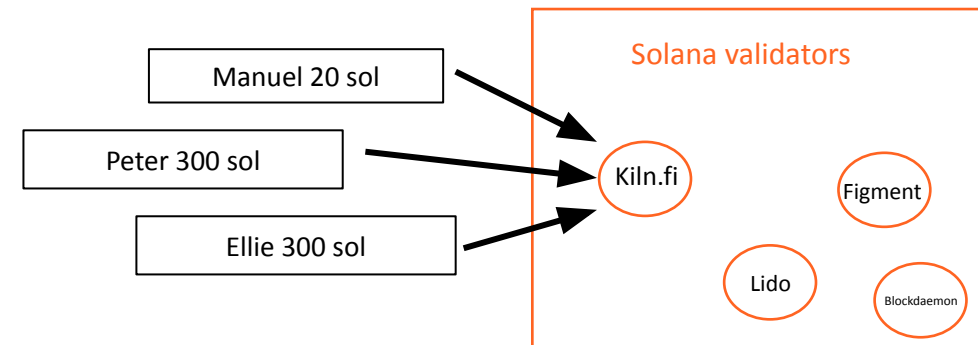
Proof of stake (PoS)

Ethereum staking – Kiln Validators



Delegated proof of stake (~~DPoS~~)

Solana staking – Kiln Validators

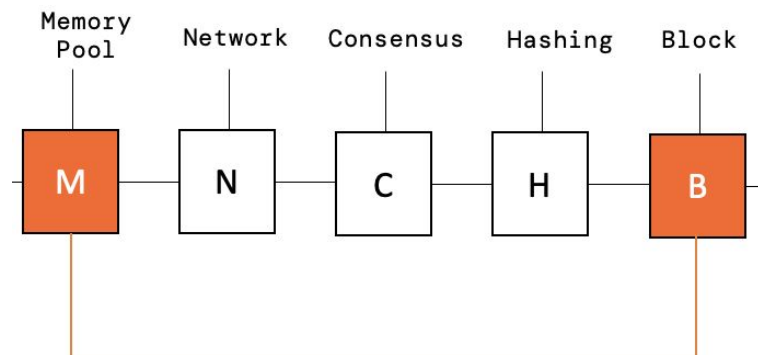


WHAT IS MEV? (*maximal extraction volume*)

Another way for miners / validators to **make money** outside of transactions fees and mining block rewards.

HOW DO YOU MAKE MONEY WITH MEV?

Re-ordering / optimizing transactions in a block.



MEV opportunity examples



LIQUIDATION

Liquidators repay up to 50% of the assets borrowed and in return they are eligible to a portion of the collateral at the market price minus a liquidation discount of 5% or more.

Transaction Hash:

0x963054a6001e4711a64b5dc35a37a0eb3aaf3bb7c204f021dd5e85e7a8a51a31

Status:

Success

Block:

11132918 3131128 Block Confirmations

Timestamp:

485 days 3 hrs ago (Oct-26-2020 03:47:46 PM +UTC)

Transaction Action:

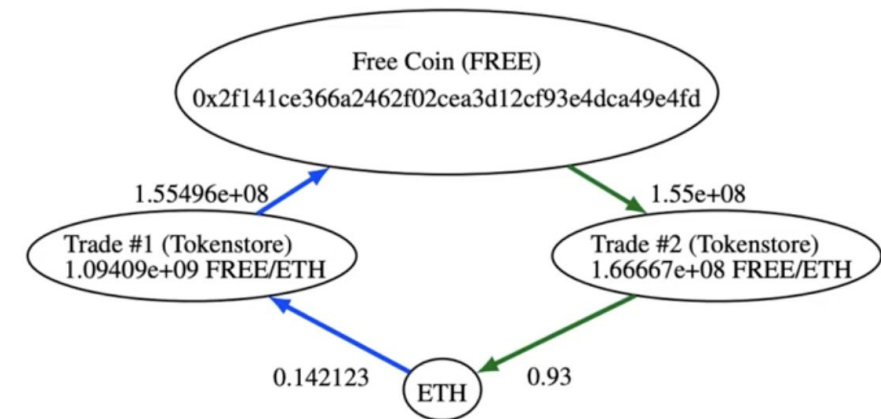
Borrow 11,558.317402311470764075 DAI From Compound

Liquidator Repay 11,558.317402311470764075 DAI To Aave Protocol V1

Liquidation 1,100.830609991235507621 LINK On Aave Protocol V1

ARBITRAGE

If two decentralised exchanges are offering a token at two different prices, someone can buy the token on the lower priced decentralised exchange and sell it in the higher decentralised exchange in a single transaction.



KILN.fi uses MEV boost

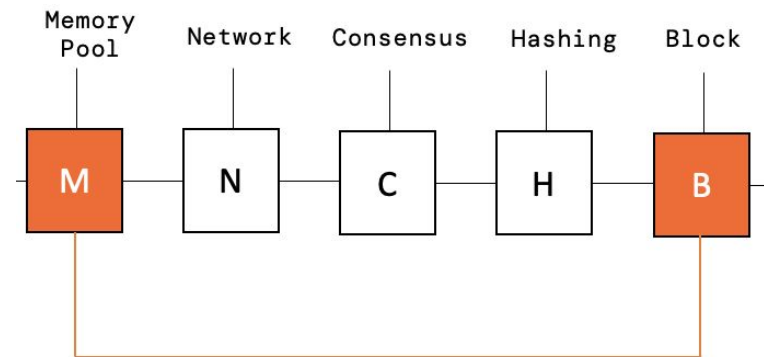


Ethereum

4.3% APY



10 - 12% APY



ROLE 1: **propose** the block

ROLE 2: **mine** the block



\$672,461,921

Total Extracted MEV

\$8,606,882

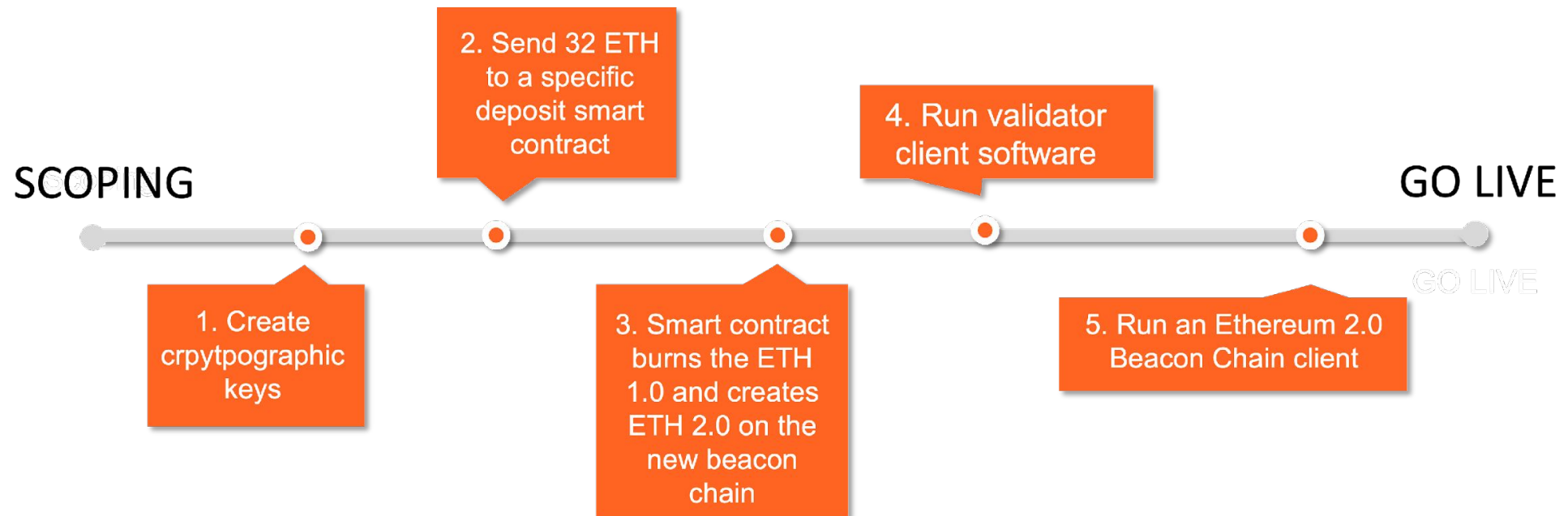
Last 30 days Extracted MEV

\$130k

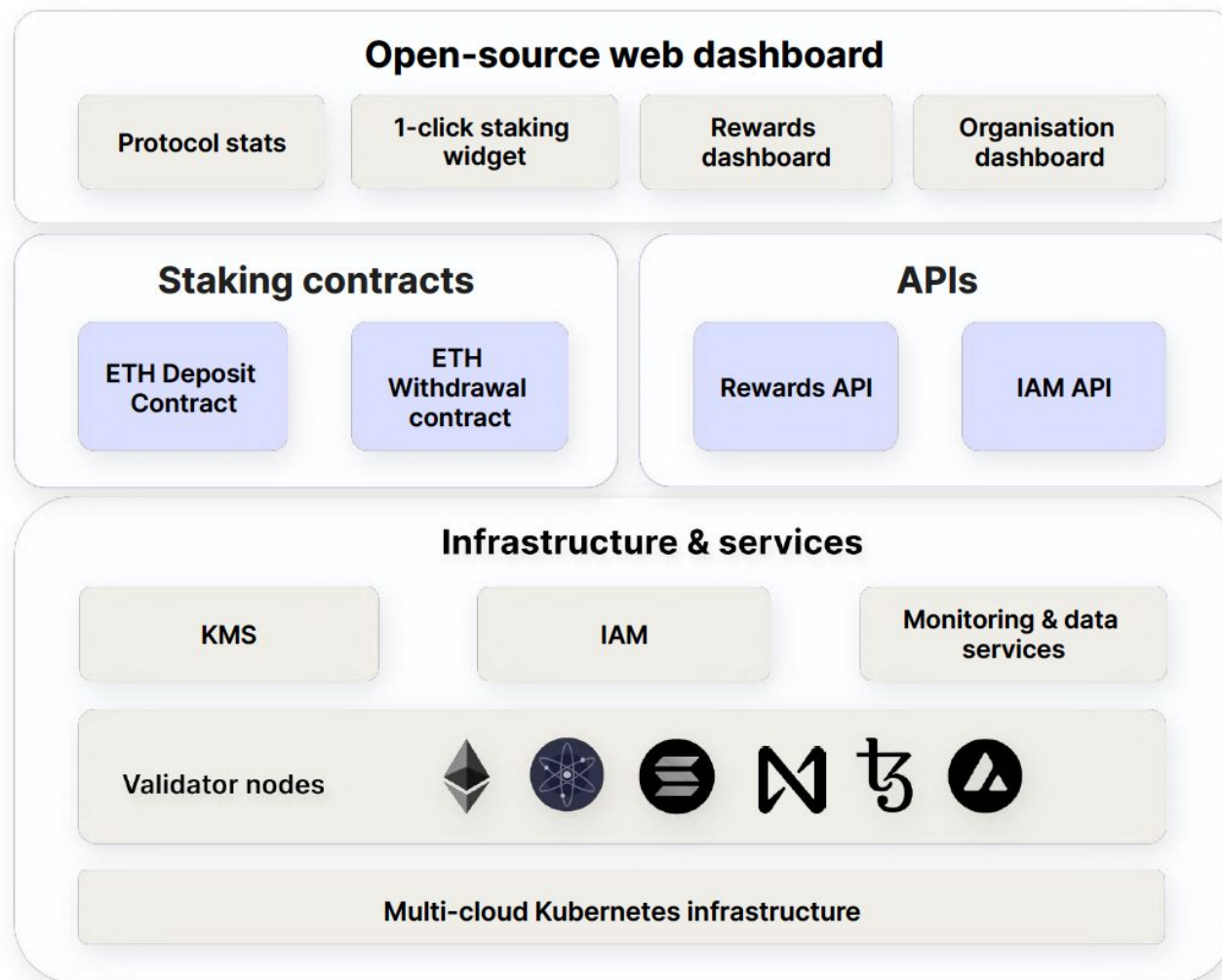
Last 24h Extracted MEV

THE IMPLEMENTATION

How do you implement eth 2.0 staking from a technical perspective?



You can use KILN.fi solutions



- Easy enterprise **staking**
- **Non-custodial:** integrated with all major wallets/custodians
- Comprehensive rewards and **monitoring APIs**

Delegation flows



dPOS protocol



Ethereum

Generating validation key



Funding the validator with 32
eth



Monitoring validator performance and
accrued rewards



Solana

Issuing a single staking
transaction with:

- Amount to stake
- Validator address



Monitoring validator performance and
accrued rewards

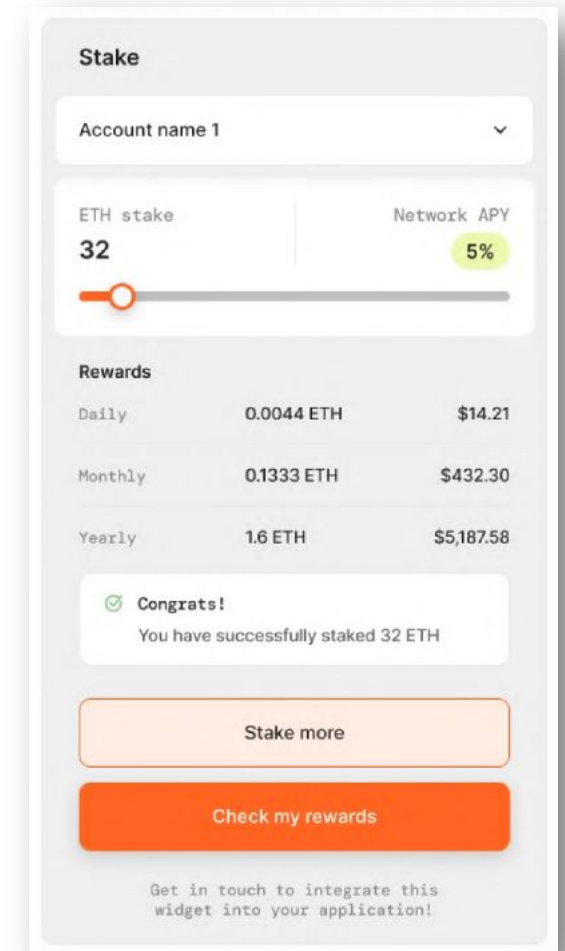
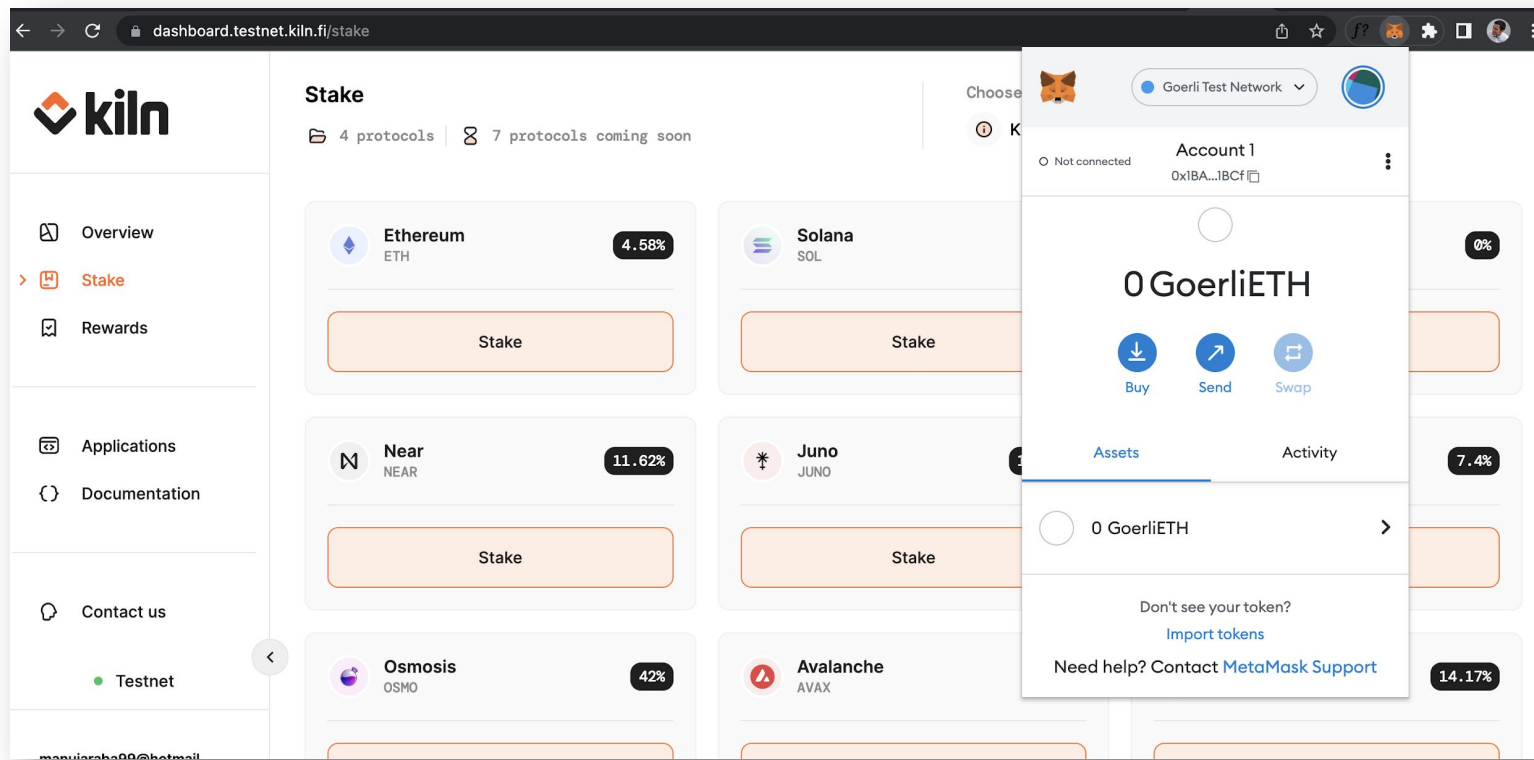
Check custodians API



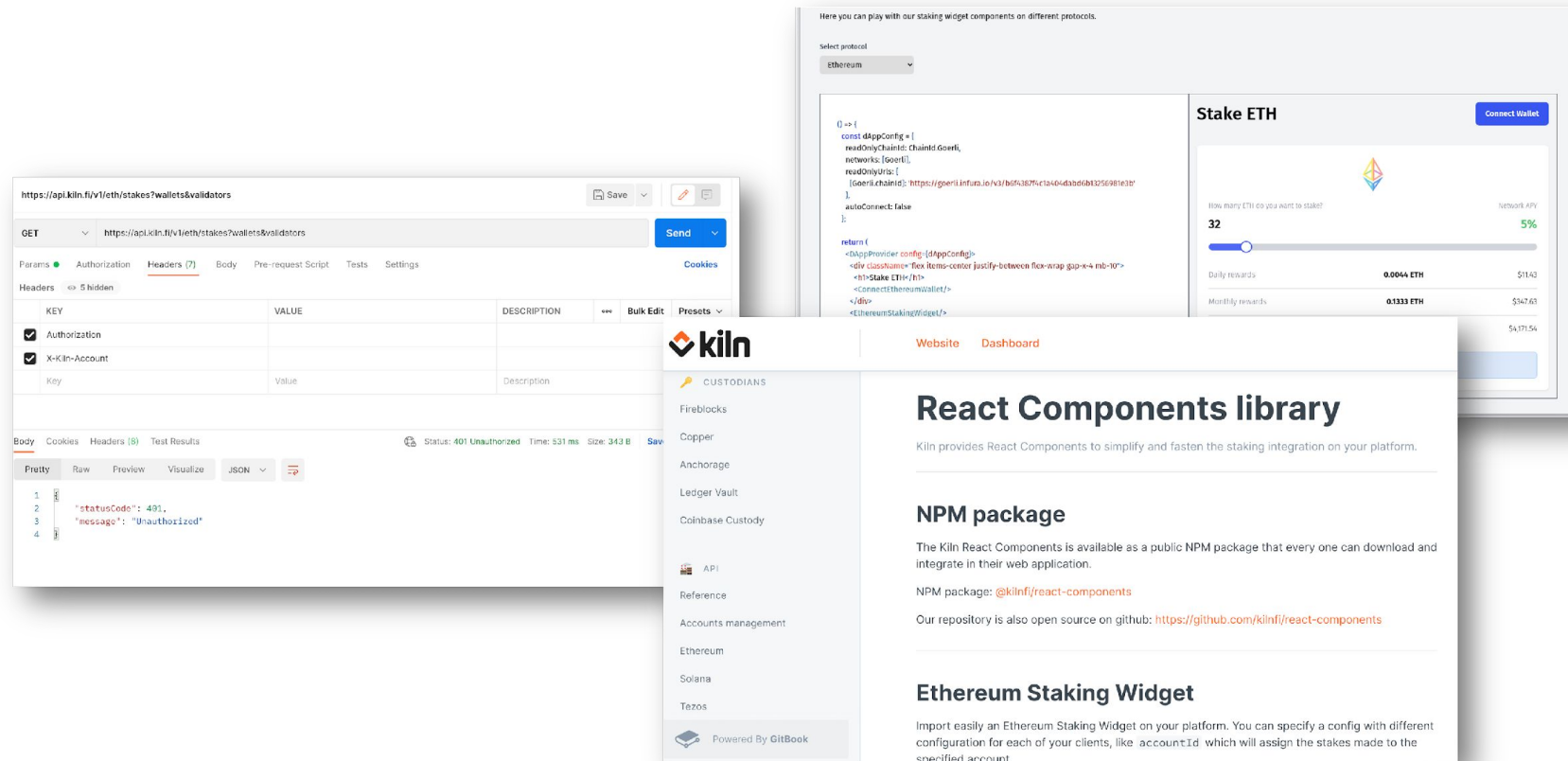
**Tezo
s**



Open source web dashboard / staking button



KILN.fi API documentation / testing

The image is a composite of three overlapping screenshots from the KILN.fi website. The background screenshot shows an API testing interface for the endpoint 'https://api.kiln.fi/v1/eth/stakes/wallets/validators'. It displays a 'GET' request with headers for 'Authorization' and 'X-Kiln-Account'. The response body shows a JSON object with 'statusCode': 401 and 'message': 'Unauthorized'. The middle screenshot shows a 'Stake ETH' widget for Ethereum, featuring a slider to select the amount of ETH to stake (currently at 32) and a 'Connect Wallet' button. The foreground screenshot shows the 'React Components library' documentation, which includes sections for 'NPM package' (with the package name '@kilnfi/react-components') and 'Ethereum Staking Widget' (describing how to import the widget and configure it).

LET'S SEE A QUICK DEMO



Kiln Security & Stats

Historical **mainnet** performance

Average all-time uptime per key:
99.85%

90d uptime: 99.94%

Slashing incidents: 0

Security practices

Kiln is **SOC 2 certified** as audited by Prescient Assurance

Kiln is **non custodian**, When staking with us you keep ownership of your token.

Kiln makes use of **managed services and security solutions** available on various cloud providers.

Kiln **encrypts data at rest** and in transit for all of our resources.

Q & A

Manuel Jaraba

Candidate Sales Engineer at kiln.fi

