

Seren

Decentralized Web Infrastructure

Decentralized Web

A decentralized web is an ecosystem of **trustless, unstoppable, permissionless and tamper-resistant technologies*** that enables creation of fully censorship-resistant online web services.

* A tamper-resistant technology aims to protect a web service from unauthorized modification, censorship, takedown attempts, or operational disruption.

Decentralized alternatives are created for large services and this initiatives are increasing

Social Media & Microblogging

- Twitter (X) → Mastodon, Nostr, Bluesky, Farcaster
- Facebook → Diaspora*, Minds, Friendica
- Reddit → Lemmy, Kbin

Photo & Video Sharing

- Instagram → Pixelfed
- YouTube → PeerTube
- TikTok → Odysee, DTube

Messaging & Communication

- WhatsApp / Telegram → Session, Briar
- Discord → Revolt, Matrix (Element)
- Slack → Mattermost, Zulip

Cloud Storage & File Sharing

- WeTransfer → Wormhole, OnionShare
- Google Drive / Dropbox → IPFS, Filecoin, Storj, , Swarm

Knowledge & Collaboration Tools (Groupware)

- Google Docs → CryptPad, Etherpad
- Notion → Anytype, Logseq, Athens
- Wikipedia → Everipedia, Wiki.js

Cloud Computing

- AWS / Google Cloud / Azure → Ethereum ecosystem, Internet Computer Protocol, Akash Network, Golem

The mission:

Build the Decentralized Web

We can build the infrastructure for truly decentralized web applications that can be interacted the same way as traditional websites and erase the gap between Web2 and Web3.

Novel Approach

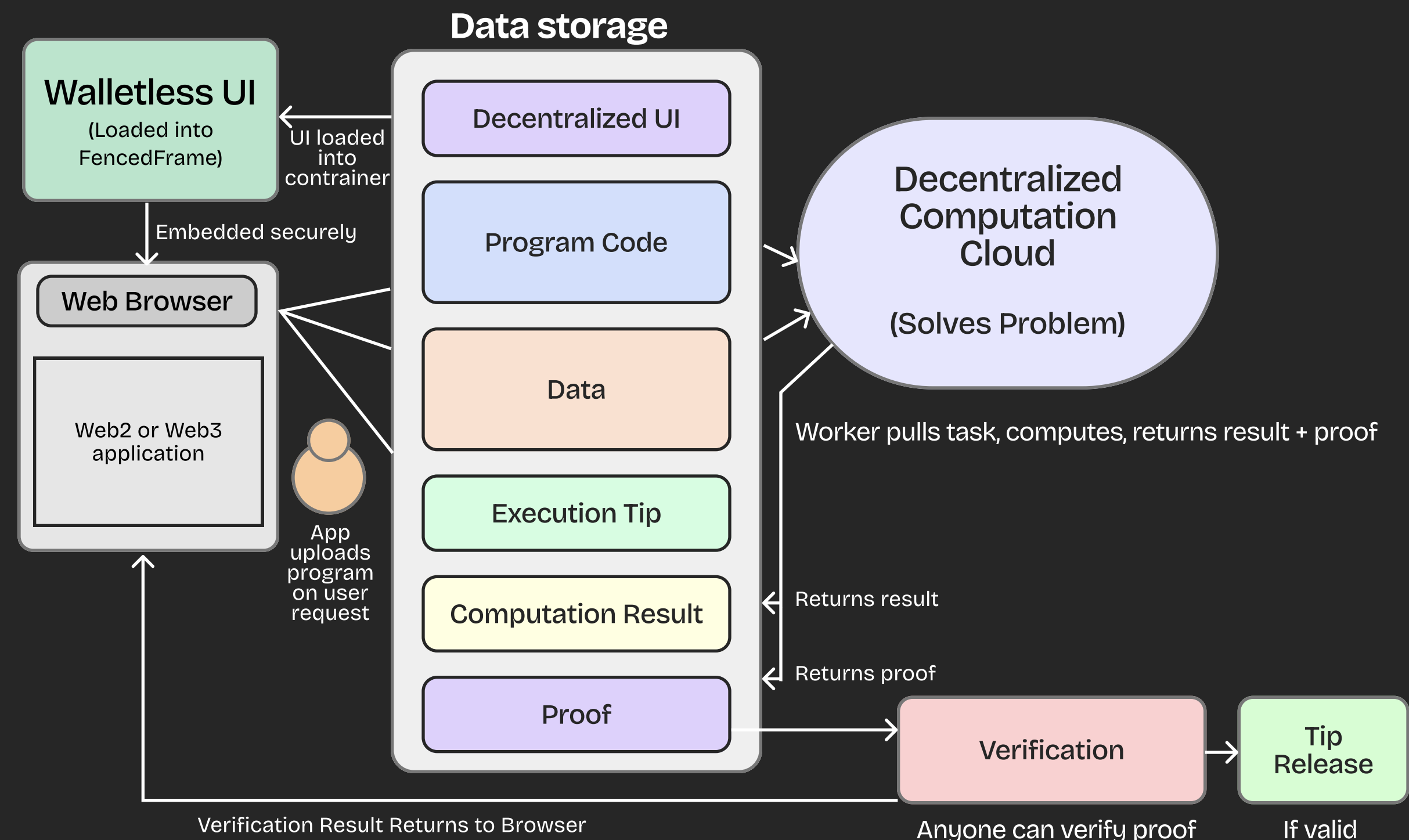
A unified cross-component tokenomy with single coin to incentivize Layer 1, decentralized storage and decentralized computations.

Beyond storing files or dApp interfaces in decentralized storage, this architecture **offloads complex computations from Layer 1 to a decentralized computation layer.**

This eliminates traditional Layer 1 constraints and enables cross-component tokenomy, enabling decentralized applications that are faster and highly scalable — all without compromising trustlessness.

What user experience with this architecture will be:

- Walletless - no wallet app to download
- Developers send welcome tokens to new user
- Users can transact without holding native coin
- Gasless operations boost the coin's economy



Components

The **majority of components are already available** — our key task is to integrate them effectively for smooth cross-component interoperability.

Decentralized Storage

Flexible, resilient storage designed for high availability and real-world performance.

Decentralized Compute Cloud

A permissionless execution layer supporting scalable, trustless computation for dynamic applications.

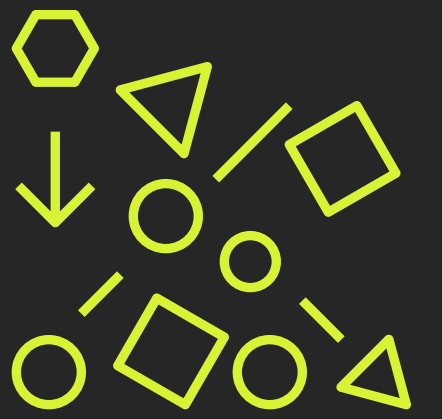
High-Throughput Layer 1 Blockchain

Seamlessly integrated into the stack, enabling native micropayments and fast, frictionless interaction between services.

Walletless experience

A walletless UI that embeds directly into a web page and initiates without user interaction, featuring secure backup and recovery. It runs in an isolated space within the page, offering security comparable to extension-based isolation.

How-To



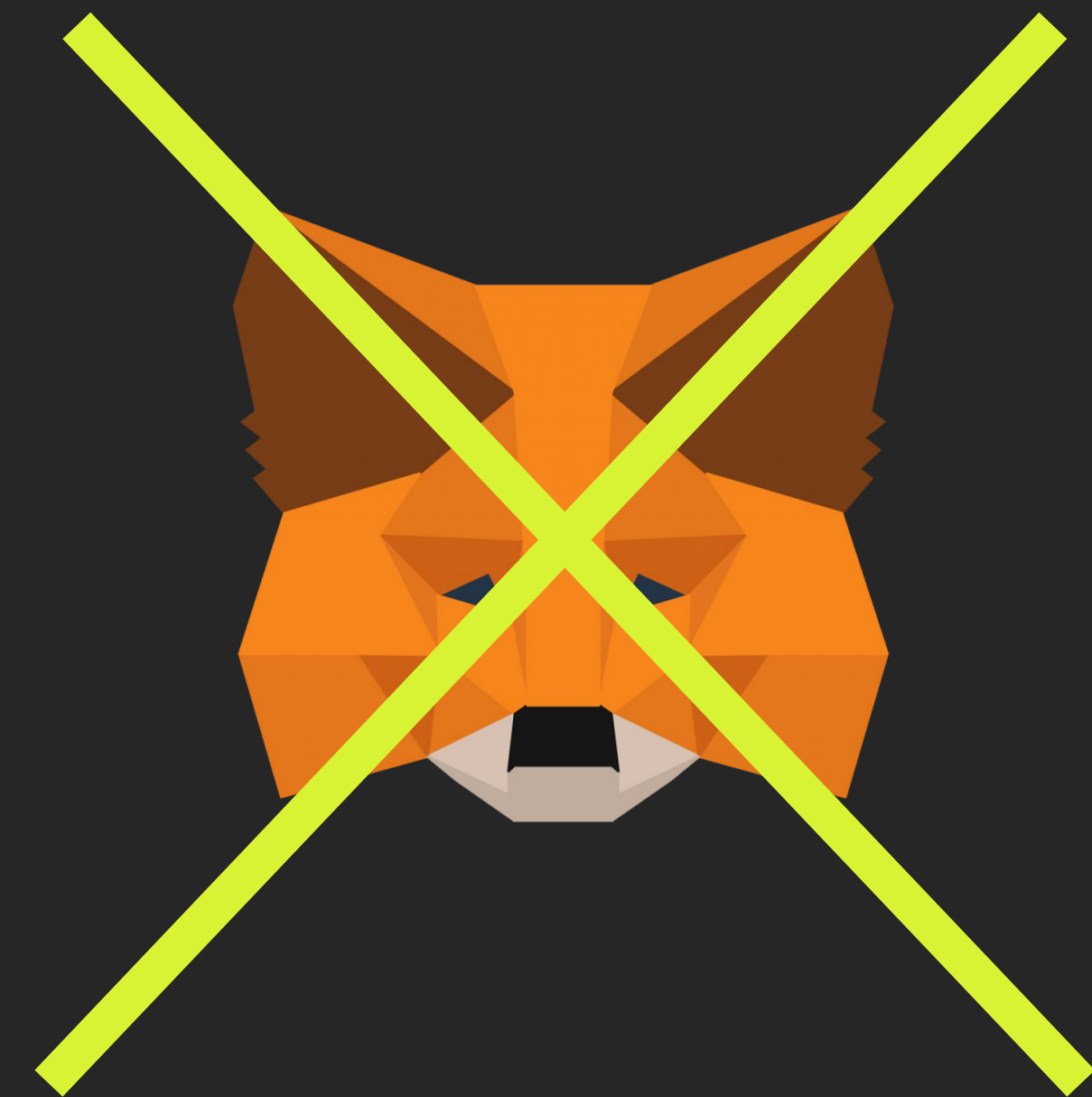
The **Layer 1** is based upon **modified version of TON protocol**. TON is a modular blockchain, designed for scaling and side chain branching.

A **novel transaction model** enables cross-component incentivization and gasless transactions, while still **boosting the coin economy** under the hood.

The **decentralized storage** system is based on **modified Arwave protocol**, leveraging its proven designs.

Decentralized computation cloud is easier to implement, **inspired by the approach pioneered by RISC Zero**.

Basement for walletless experience - **FencedFrame, already shipped in Chrome browser**.



No wallet to download

Initial Economy Creation

Initial ecosystem growth will stem from solving a problem that has historically prevented **Web2 browser MMO games** from integrating Web3 payments - user onboarding.

By offering a walletless experience and gasless transactions Seren can establish a strong early presence in the browser MMO game ecosystem.

This market is **valued at \$25B.**



Further Growth:

The **Web2 payments** market within key digital sectors - social networks, messengers, streaming, ad networks, apps, and games - accounted for an **estimated \$2.5–2.7 trillion in volume** in 2023–2024. This market is projected to exceed \$3 trillion by 2025 and represents a highly targetable opportunity for Web3 analogues.

Further growth of the coin's economy can be driven by enabling and expanding into these Web3-native domains:

- Decentralized social networks
- Decentralized messengers
- Decentralized video streaming with micropayments
- Decentralized ad networks
- Mobile applications via PWA and native integrations
- Web3 payments in existing Web2 websites
- Decentralized AI

Addressable
total market
\$3 Trillion

People



Max Founder of an in-browser, multi-chain multisig wallet for businesses. Security auditor for a top non-custodial wallet (10M+ MAU), and contributor to multiple decentralized products.

Skills: Wallets, Browser extensions, Smart contracts, Transaction schemas, Cryptography, Product design



Jeff* Ex-CMO of CoinTraffic and ex-Head of User Growth at OKX.

Skills: Marketing strategy, Growth hacking, Brand visibility, Partnerships



Jarkko* Intel Alumni. Member of the Linux 200 committee and contributor to Linux Kernel security. Previous experience with virtual machine for a major blockchain protocol.

Skills: Linux Kernel, Compilers, VM, RISC-V, x86, AssemblyScript and WASM



Tech guy* A skilled silicon/ASIC chip designer and hardware security researcher, specializing in cryptography. Consults existing decentralized storage systems on security matters.

Skills: Decentralized storages, RISC-V, cryptography, Hardware Security

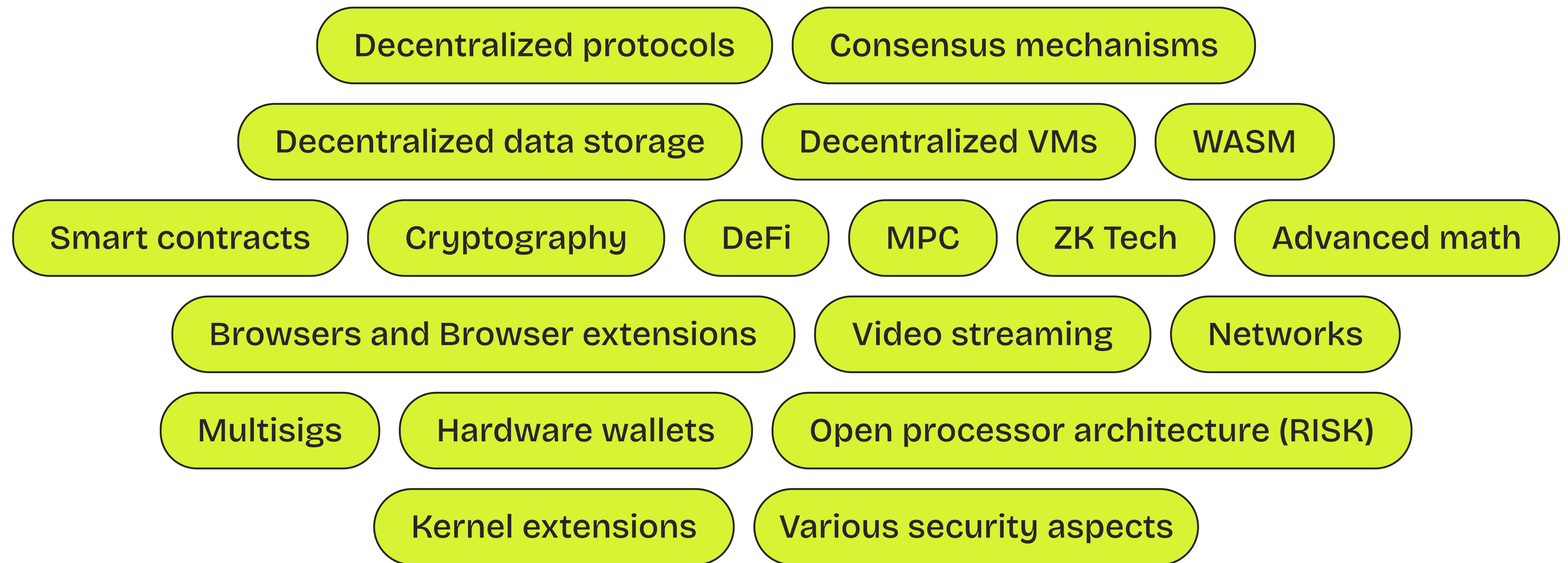


Anton* Game designer with a focus on browser MMO games. 17 years of building games, with 12 years running own game studio.

Skills: Browser MMO games, Game monetization

Expertise to Hire

Members of a decentralized internet research group, with additional expertise available for hire

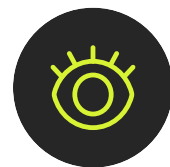


Secret sauce

By enabling a walletless experience — where users can **access dApps without installing a wallet** — combined with a JavaScript-like smart contract language to ease the **transition of millions web developers** into dApp developers, and gasless token transfer along for seamless user interaction, we can unlock the full potential of the decentralized web economy.



Reasons to invest now



Clear vision

A roadmap is ready and deep technical know-how is present - this is not vaporware.



Proven Expertise

An accessible expertise includes contributors to Linux, VLSI (Hardware cryptography), Hardware Security and other in depth field experts.



Huge Market Potential

Existing Web2 services are a multi-trillion dollar industry, but vulnerable to censorship, tamper and control.



Momentum

A growing need for uncensorable and tamper-resistant web applications is emerging across the globe.

Let's decentralize the cloud — **together.**

For inquiries about the **White Paper** and **Tokenomics**

Contact us at: info@seren.network