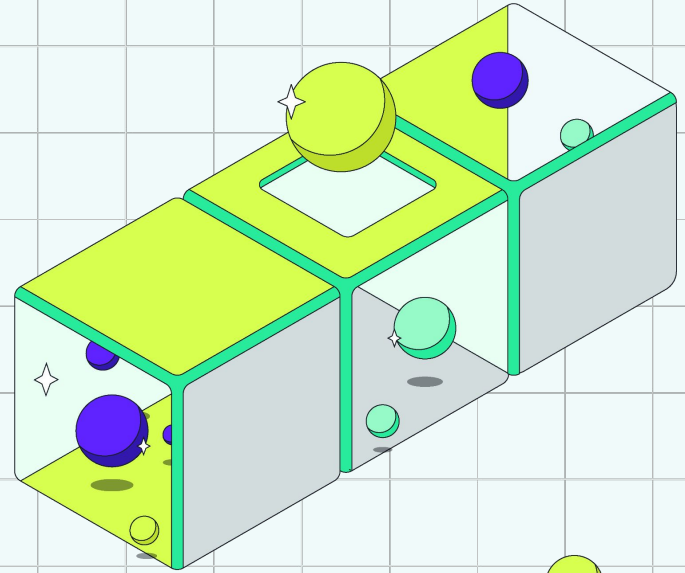




# Blockchain & Web3 Solutions

Blockchain & Web3 Services and Solutions for  
Enterprises,  
Entrepreneurs, blockchain networks and protocols





# Lime Companies

2

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Innovation Research and  
Development



Blockchain & web3  
Development Company



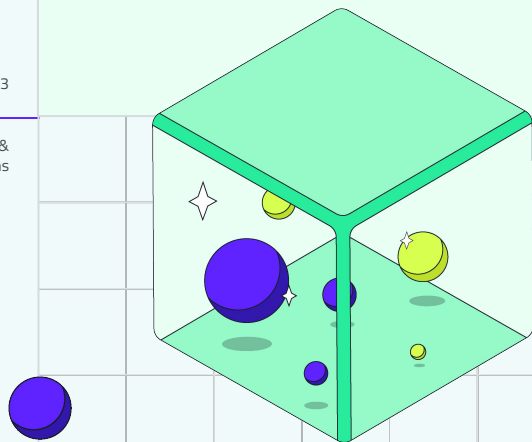
Blockchain Learning and  
tailor made trainings



# About

3

Blockchain & Web3 Solutions



**Founded:** 2017

**Location:** London, UK & Sofia, Bulgaria

**LimeChain** is a pioneer in **Web3 adoption** innovation, driving ecosystems forward with blockchain technology.

Since **2017**, the company has completed more than **200 blockchain projects** throughout several verticals within the web3 startups, enterprises, protocol, and blockchain infrastructure.

## Notable clients and partners:



ENTERPRISE  
ETHEREUM  
ALLIANCE



Hedera  
Hashgraph



mercado  
libre



Filecoin



CUDOS

near



PARFIN

OPTIMISM



BCW



polygons zkEVM

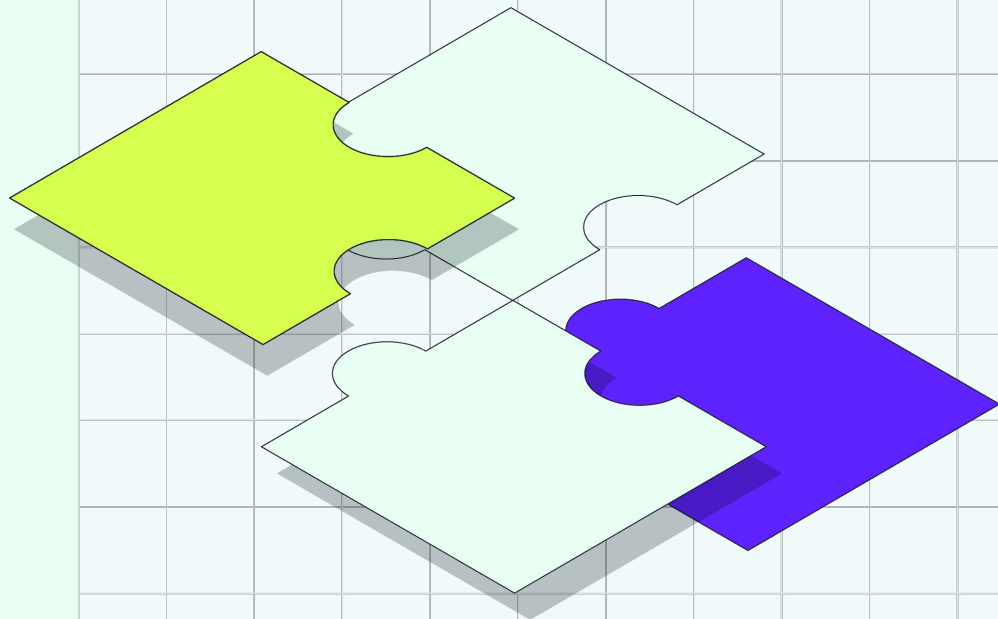


# Services Overview

4

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Web3 Solutions

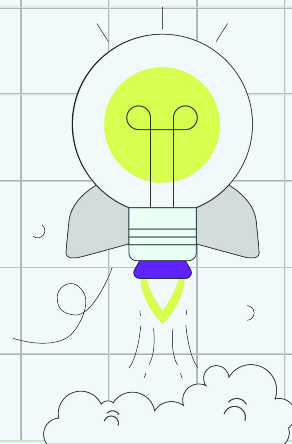
- // Complete Product Development
- // Blockchain Tech Consulting
- // Team Extension
- // PoC & MVP Development
- // Smart Contract Development
- // Web & Mobile Development
- // UX/UI Design
- // Solution architecture design consultancy







# Solutions Development



5

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// **Digital and RWA Tokenization Platforms**

// **Decentralized Applications (dApps)**

// **DeFi Products**

// **Token Creation**

// **Smart Wallets**

// **Non-fungible Tokens (NFTs)**

// **Blockchain Protocol Development**

// **Tools Development**

// **DAOs and Continuous Organizations**

// **ZK tech Development**



# Engagement Models

6

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Web3 Solutions

**Tech Team  
Extension**

**End-to-End  
Product  
Development**

**Enterprise  
Innovation**

**Network and  
Protocol Core  
Development**



# Tech Team Extension

**LimeChain** will help you push through hard problems and high-pressure times.

Our world-class engineers will seamlessly integrate into your team and will contribute with their vast expertise.

7

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## Notable clients and partners:



Hedera Hashgraph



DAOstack





# End-to-End Product Development

**LimeChain** is committed to be your long-term technological partner, solving the business problem in a holistic manner and providing ongoing support.

Architecture and Design

End-to-End Development

Technical Support

8

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## Notable clients and partners:





# Enterprise Innovation

We use our blockchain and ledger technology use-case knowledge base to the competitive advantage for your organisation. We will deep-dive and understand your business goals and needs, and find the unique hidden efficiencies that blockchain enables for your organisation.

9

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**Blockchain & DLT Consulting**

**Proof of Concept Development**

**Technical Support**

**Notable clients and partners:**

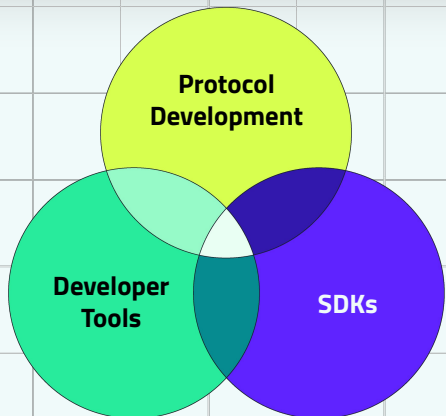




# Network and Protocol Core Development

10

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We have been a core development partner to some of the most prominent blockchain protocols out there. The team behind LimeChain has an excellent track record in bringing blockchain network and protocols from idea to complete realization, including core development, SDKs and tools.

## Notable clients and partners:



MANTRA Chain





# Development Approach

## Technology agnostic

LimeChain is not tied to one particular blockchain network or technology, instead we use the best techno- logical solution that solves the problem at hand

## Agile development

We utilize 2-week development sprints allowing us to move fast, stay agile and bring products to market - faster and better

## Security

Whether it's an enterprise system or a blockchain-enabled investment platform, we prioritize security, data and funds integrity regardless of the product/solution

## User-centric

We design and develop products with the end user in mind, aiming to deliver seamless user experience

## Top down analysis and planning

It is fundamental to understand the goals of the project, its users, and the bigger vision of the product owners, entrepreneurs, and stakeholders. That way, we can be valuable tech partners contribute and brace the project's success.



# Partners

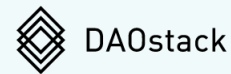


The Graph

*Polkadot.*



Hedera  
Hashgraph



DAOstack

12



CUDOS



mercado  
libre



MORPHEUS  
NETWORK



Raiffeisen  
BANK



MANTRA DAO

*Flowty.*<sub>tm</sub>



celo



Tally



P&G



ARXUM



LEDGER



8m  
VC





# Partners

13

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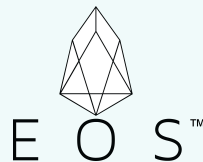


# Developer Tools

**LimeChain** has developed tooling for the following blockchain protocols:

14

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# Public Goods

**LimeChain** has developed tooling for the following blockchain protocols:

15

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**Wisp Protocol**



**Matchstick**



**FRUZHIN**



**Hedera MultiSig**

**ROLLUPCODES**



ethereum  
EIP4400

**GO**SEMBLE



**EtherLime**

**Polkadot.**  
Subsembly



# Technological Stack

16

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## Blockchain



The Graph



## Infrastructure



## Backend



## Frontend

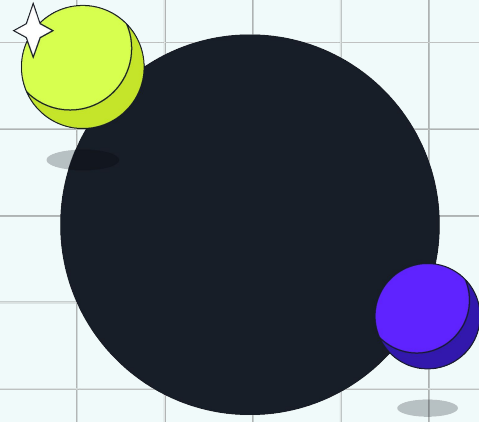




17

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Web3 Solutions

# Case Studies





# Case Studies: The Graph

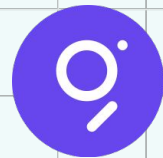
18

Blockchain &  
Web3 Solutions

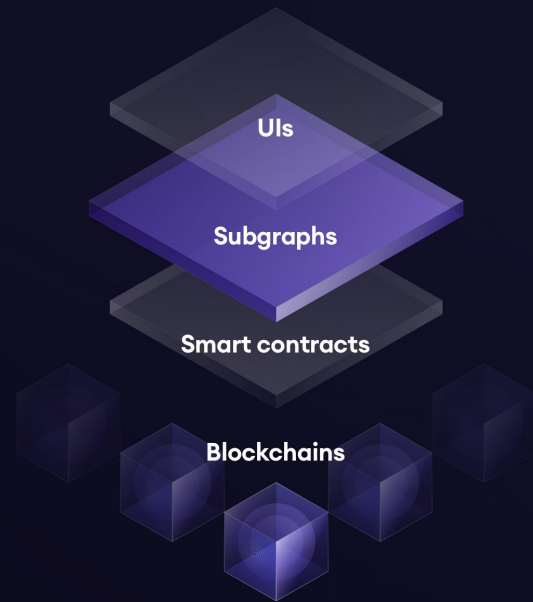
**Type:** Data Indexing Protocol

**LimeChain Involvement:** Developer tools

**Project Description:** LimeChain received a grant from The Graph to build [Matchstick](#) - a unit testing framework for Subgraphs. As The Graph is shaping up to be the data layer of Web3, the tool can be leveraged by any developer utilizing The Graph's technology.



# The Graph





# Case Studies: Pear Protocol

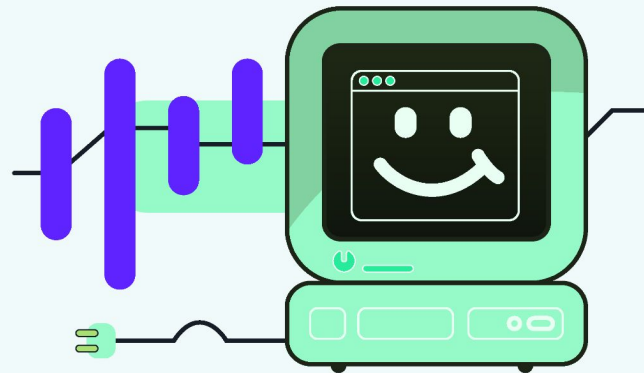
**Type:** DeFi protocol

**LimeChain Involvement:** Tech development partner

**Project Description:** Platform for trading the latest narratives by choosing one token to long and one to short with leverage. Each pair trade in Pear Protocol has the option of becoming an ERC-721 token. This tokenized position (NFT) will allow the trader to view the open pair position data (current PnL, date, tokens and prices), making it particularly useful for portfolio management. It will also allow seamless transfer of the position to other wallet addresses.

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Web3 Solutions





## Case Studies: Near

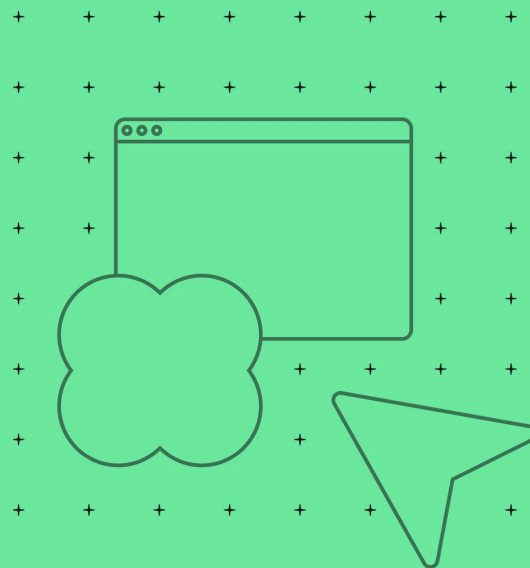


20

**Type:** Blockchain network

**LimeChain Involvement:** Infrastructure development

**Project Description:** Developing TypeScript Light Client Implementation in order to provide a lightweight and efficient way for users to access and interact with the network. This is ideal for a wide range of applications, such as accessing and managing on-chain assets, developing decentralised applications (dApps), and providing a simple and friendly way for users to get started with the technology.







# Case Studies: Tokenized loans

ONERIVER  
ASSET MANAGEMENT

21

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**Type:** Investment strategy platform

**LimeChain Involvement:** dApp end to end tech product development

**Project Description:** One of the projects of our partners at One River Asset Management is focused toward fully compliant decentralized platform that provides opportunity to investors to bid on a tokenized loans and on the other hand will provide a gateway to organizations seeking external liquidity issuing tokenized loans and get the best offers. This is only one of the many features coming on the One River suit of functionalities and applications.





# Case Studies: Polkadot



22

**Type:** Blockchain Infrastructure

**LimeChain Involvement:** Developer tools

**Project Description:** LimeChain is helping the **Web3 Foundation** by building developer infrastructure for Polkadot. LimeChain has built an AssemblyScript library and currently working on a tool allowing to build runtimes in AssemblyScript – a language similar to TypeScript / JavaScript, essentially enabling the millions of JavaScript developers to build on Polkadot.





## Case Studies: **Luxury sport car brand**

**Type:** Brand loyalty tokenized platform

**LimeChain Involvement:** dApp Development,  
NFT

**Project Description:** For our client who is a German luxury sports car manufacturer we have built both tokenized brand loyalty platform and NFT minting platform

The brand tokenisation application is a white label platform for tokenizing customer loyalty program (with fungible and optional non fungible tokens) and incentivising them towards particular brands, as well as Brand NFT Collection in Open Sea.





# Case Studies: **Hedera**



Hedera  
Hashgraph

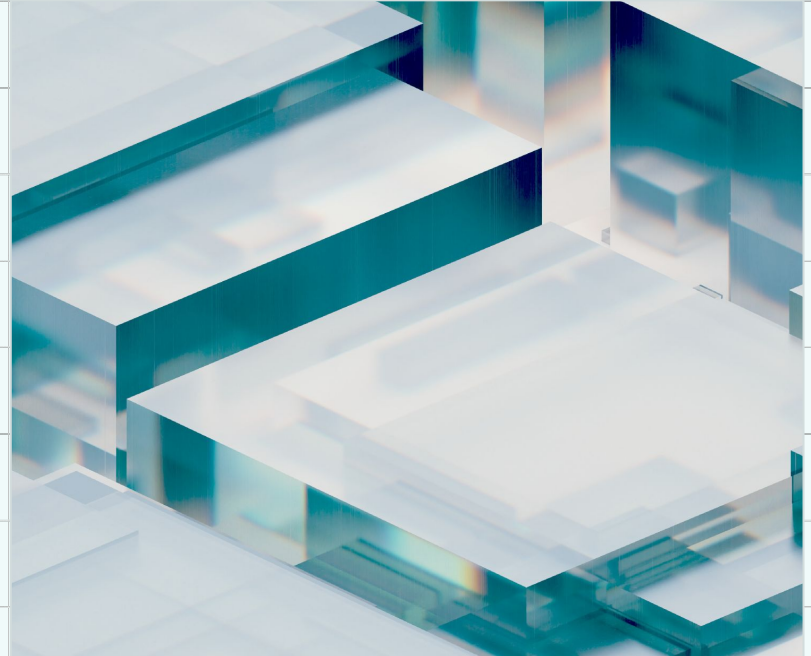
24

Blockchain &  
Web3 Solutions

**Type:** Blockchain Network

**LimeChain Involvement:** Core Development Partner

**Project Description:** LimeChain are working in partnership with **Hedera Hashgraph** to actively develop projects, alongside enterprises and other organisations, building applications & ecosystem components on the Hedera network.





## Case Studies: Parfin



25

**Type:** TradFi platform

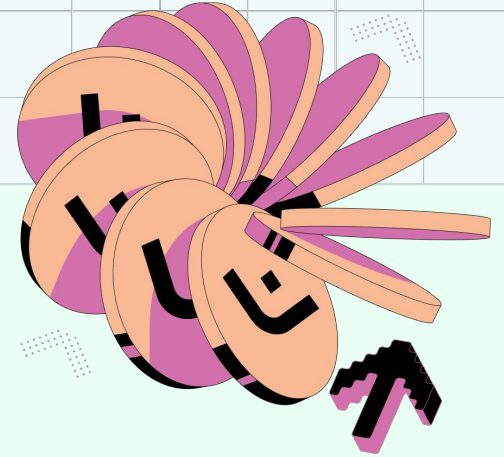
**LimeChain Involvement:** Infrastructure Development

**Project Description:** The project involves a permissioned, EVM-compatible Layer 0 blockchain ecosystem. It offers private, integrated blockchains, secure token bridges for blockchain transfers, a KYC system for users, and consultancy for web3 projects. The key characteristics include simple and secure interoperability, full privacy, a native KYC solution, and a permissioned network.





## Case Studies: Mantra Finance



26

**Type:** Multi-chain DeFi suite

**LimeChain Involvement:** End-to-end product development

**Project Description:** MANTRA Finance develops a vertically-integrated and regulatory-compliant blockchain ecosystem. It allows users around the world to trade, issue, and earn from both digital assets and tokenized securities alike. It intends to provide a comprehensive DeFi platform that addresses the diverse requirements of investors, encompassing both active trading and passive investing in selected asset categories, as well as providing users with the ability to generate favorable returns on investments.





## Case Studies: Filecoin



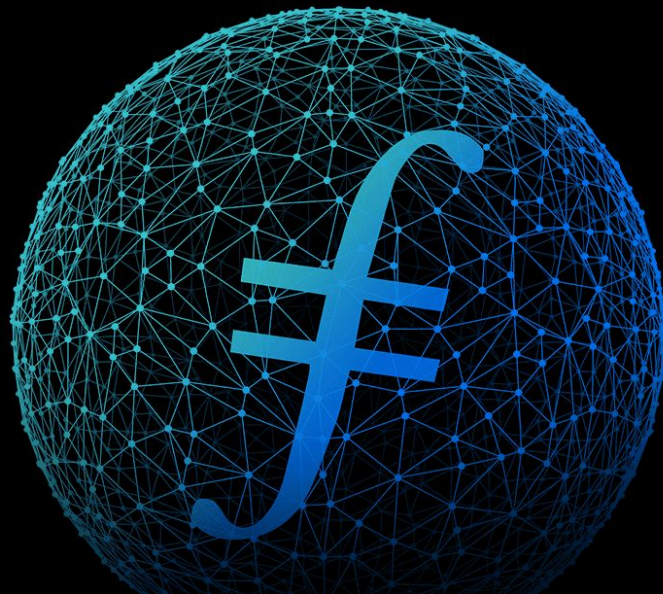
**Filecoin**

27

**Type:** Decentralized storage network

**LimeChain Involvement:** Dev experience and tooling

**Project Description:** LimeChain has completed foundational aspects of the project, which involved an in-depth study of IPC Actors and Rust reference implementations, reviewed FIP-0054 to grasp the inner workings of FEVM, enabling seamless integration within Filecoin. Moreover, the SubnetActor, along with essential auxiliary libraries like CBOR encoding/decoding, has been implemented to enhance the overall system functionality.





## Case Studies: Ledger

**Type:** NFT metadata customization platform for brands and artists to build and launch their own drops

**LimeChain Involvement:** dApp Development

**Project Description:** Unique platform for curated NFT drops that enables brands and artists to create, distribute, and store NFTs with ease and world-class security. LimeChain is involved as a technology partner and primarily focused in the refactoring of an existing codebase by optimizing it, but also further scale the platform's capabilities.

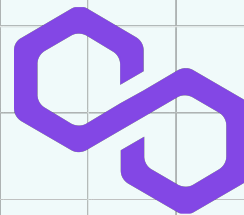
[ LEDGER ]







# Case Studies: zkEVM



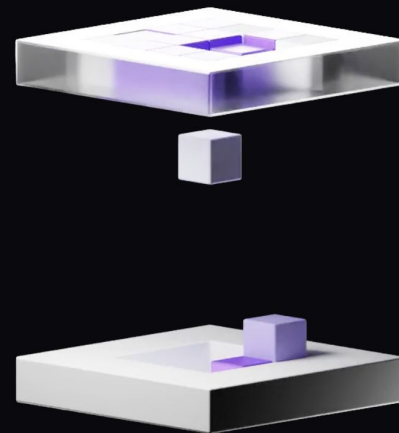
29

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Web3 Solutions

**Type:** Layer 2

**LimeChain Involvement:** Infrastructure development

**Project Description:** Polygon zkEVM is a decentralized Ethereum Layer 2 scalability solution (rollup) based on (zero-knowledge) cryptographic proofs to provide validation and fast finality to transactions. LimeChain contributed to the implementation of an alternative client for their zkEVM - Erigon.





# Case Studies: KoIs Center

**Type:** Online learning and certification platform

**LimeChain Involvement:** End to end tech product development

**Project Description:** An online platform operating on the Polygon network that enables super administrators to generate school accounts, facilitating the creation of digital certificates as NFTs for students upon course completion. By integrating certificate templates with class rosters via CSV files, the platform generates personalized digital certificates linked to students' email addresses, thereby referencing the class roster.





# Case Studies: **Optimism**

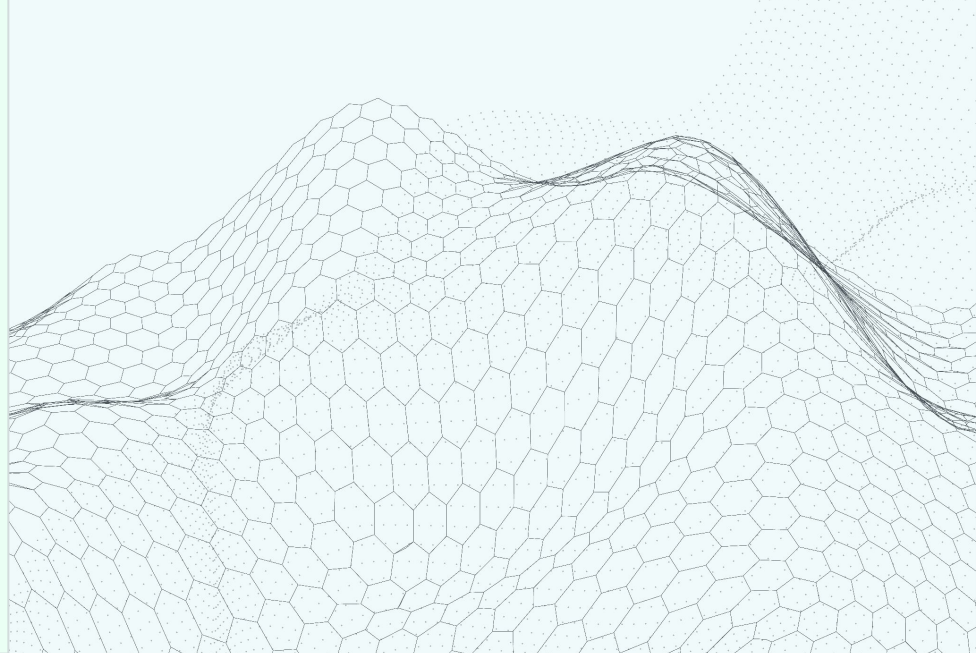


31

**Type:** Layer 2

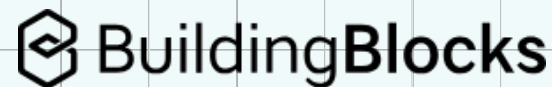
**LimeChain Involvement:** Infrastructure development

**Project Description:** The project objective was to improve the cross-rollup communication and data storage by having historical block hashes stored as part of the L1Block contract. In order to make communication between the L2s possible, it's important to store the L1's info on the L2 (Optimism) so that can be used by the other L2 solutions.





# Case Studies: Building Blocks



32

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**Type:** Industry specific NFT Marketplace

**LimeChain Involvement:** End-to-end product development

**Project Description:** The platform functions as a marketplace for 3D digital assets, utilizing smart contracts and blockchain to ensure secure transactions. It operates as an exclusive hub for 3D architectural assets, offering a specialized focus on NFAs (Non-Fungible Architectural assets) rather than conventional NFTs.





## Case Studies: Scroll



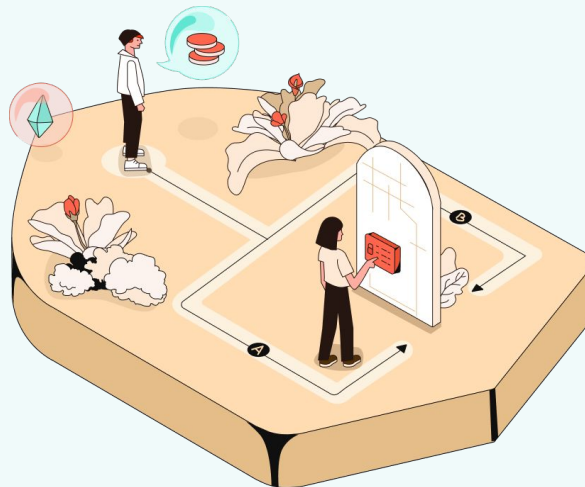
33

**Type:** Layer 2

**LimeChain Involvement:** Infrastructure development

**Project Description:** Layer 2 solution for Ethereum, enhancing transaction speed and reducing costs using zk-Rollups. It leverages Ethereum's security while significantly boosting throughput, benefiting dApps with improved scalability.

LimeChain has been involved in the development of Trustless L1 Blockshashes Relay.





## Case Studies: Heliswap



34

**Type:** DEX/AMM

**LimeChain Involvement:** End-to-end tech product development

**Project Description:** Heliswap is a DEX/AMM that is deployed on Hedera network and incorporates both Hedera native assets and ERC-20 on-chain assets. LimeChain was involved as tech partner developing everything from the web3 UX/UI designs through the FE, BE and the web3. Project includes the creation of liquidity providing, staking, yield farming, governance and native token. The projects was the first one within Hedera ecosystem to incorporate both the native standards and the EVM compatibility.



# Case Studies: Fruzhin

35

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Web3 Solutions

**Type:** Polkadot software client/host

**LimeChain Involvement:** Core development

**Project Description:** Fruzhin is a Java implementation of the Polkadot Host. It can be run as a light client, which means that it does not need to download and store the entire blockchain state in order to operate. This makes Fruzhin an ideal choice for developers and enterprises who need trustless access to the Polkadot network without the overhead of maintaining a full node.







## Case Studies: IMVU

36

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Web3 Solutions

**Type:** Metaverse Game

**LimeChain Involvement:** Team Extension

**Project Description:** IMVU is a 3d virtual-world social game with 7 million active monthly users. LimeChain helped IMVU with the development of [VCOIN](#) - a digital currency used within the IMVU game and one of the few tokens which have received a no-action letter by the SEC.







## Case Studies: Cudos



37

**Type:** Decentralized cloud computing

**LimeChain Involvement:** End-to-end product development, Blockchain Core Development

**Project Description:** CUDOS is bridging the gap between Cloud and Blockchain by using the worlds available computing to power a more decentralized, sustainable and connected world. LimeChain is the technology partner that develops the Layer 1 CUDOS network based on the Cosmos ecosystem, along with the development of Layer 2 Decentralized cloud computing, which will be one of the products that run over the network.





## Case Studies: Tally



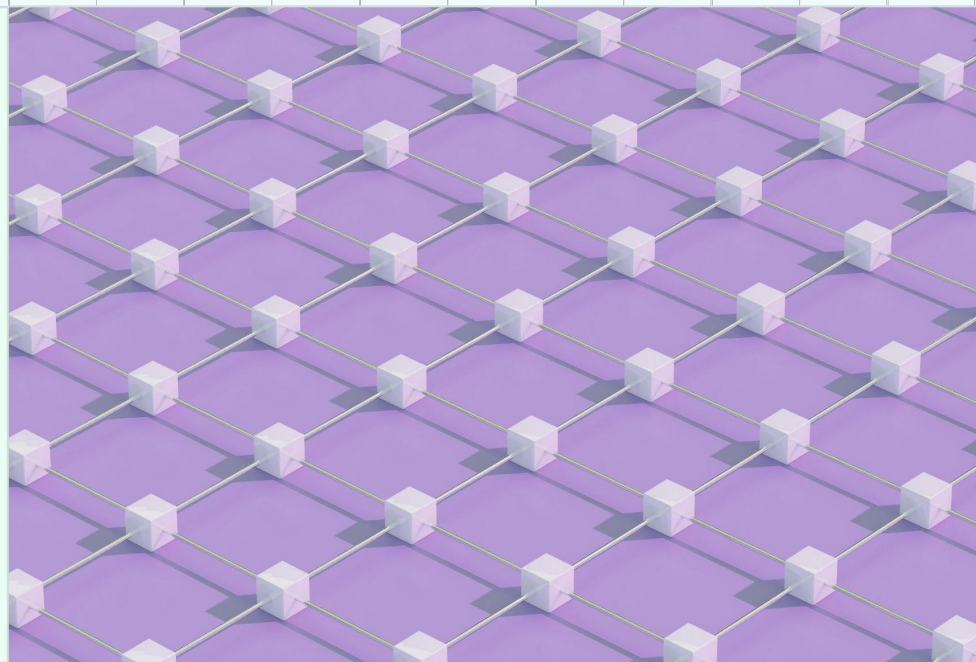
38

Blockchain &  
Web3 Solutions

**Type:** DeFi Governance Platform

**LimeChain Involvement:** Team Extension

**Project Description:** Tally is a governance platform empowering user owned governance through a voting dashboard, governance tooling, real time research and analysis, and an evergreen wiki. LimeChain helped Tally with subgraph development.





# Case Studies: **Boson**

39

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Web3 Solutions

**Type:** Web3 Commerce

**LimeChain Involvement:** Team Extension

**Project Description:** **Boson Protocol** is a decentralized network of products and services enabling commerce within the Web3 / Metaverse economies. LimeChain has been a development partner to the Boson team, helping around their token sale (total of \$35M) and core product development.





## Case Studies: Mantra DAO

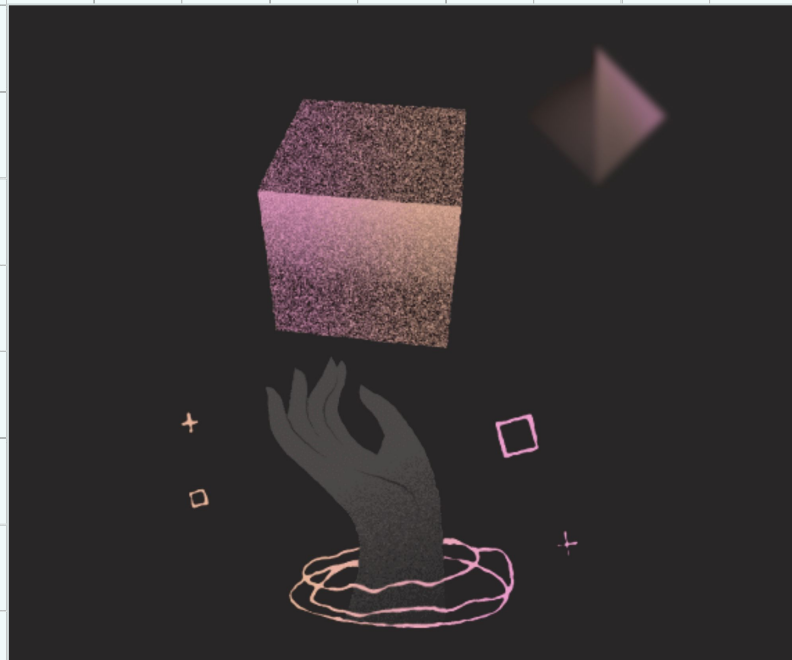
40

Blockchain &  
Web3 Solutions

**Type:** Multi-chain DeFi suite

**LimeChain Involvement:** End-to-end product development

**Project Description:** **MANTRA DAO** is a community-governed DeFi platform focused on Staking, Lending, Governance, and Decentralized Launchpad services. LimeChain is developing a Substrate-based lending protocol based on the Ink! framework.





## Case Studies: Flowty

41

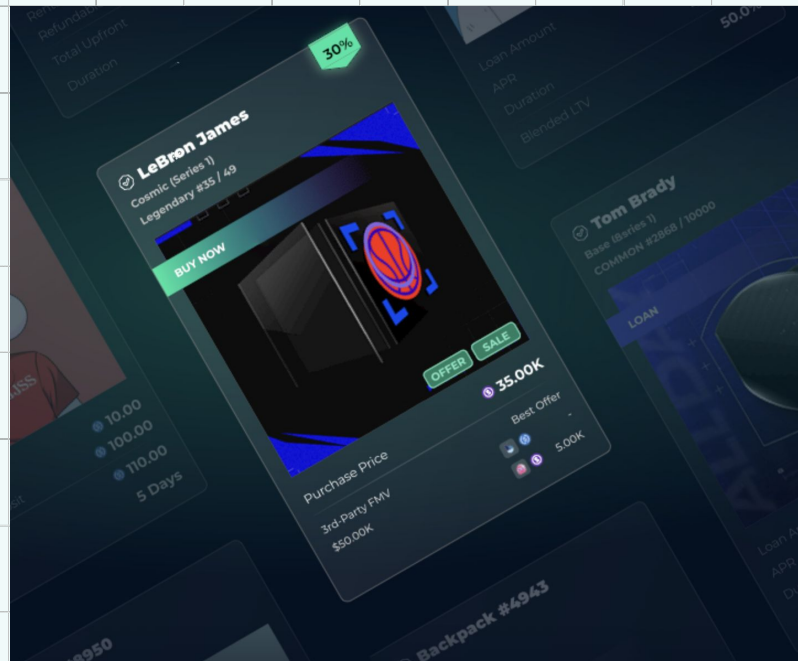
Blockchain &  
Web3 Solutions

**Type:** Lending platform using NFTs as collateral

**LimeChain Involvement:** End-to-end product development

**Project Description:** Flowty is a peer-to-peer lending marketplace where NFTs are used as collateral. LimeChain is the core development team behind the platform which is one of the first DeFi products on the Flow blockchain.

# Flowty™





# Case Studies: AllianceBlock



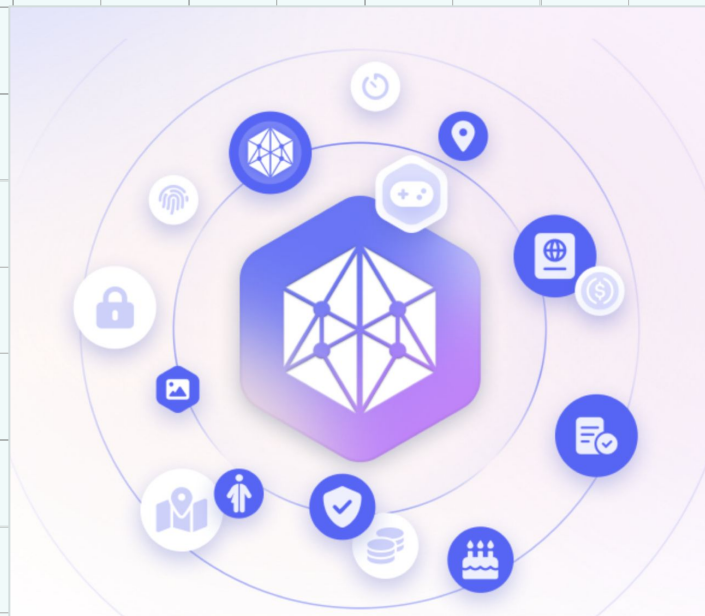
AllianceBlock

42

**Type:** DeFi Protocol

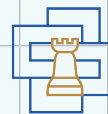
**LimeChain Involvement:** End-to-end product development

**Project Description:** **AllianceBlock** is a decentralized DeFi protocol that bridges traditional and decentralized finance and automates the process of converting any digital or crypto asset into a bankable product. LimeChain is a development partner for AllianceBlock for their Liquidity Mining as a Service product.





## Case Studies: Idoneus



IDONEUS

43

**Type:** Asset Tokenization

**LimeChain Involvement:** End-to-end product development

**Project Description:** Idoneus is an Ethereum-based platform for tokenization of luxury goods and assets such as real estate, art, diamonds etc. The Ethereum blockchain and the IDON token provide better liquidity, immutable proof ownership and overall security.







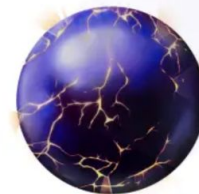
## Case Studies: Eth Rift

44

**Type:** DeFi (Decentralized Finance)

**LimeChain Involvement:** End-to-end product development

**Project Description:** **ETH Rift** is an Ethereum-based platform that allows non-crypto savvy people to invest money in Ethereum-based stablecoins and earn interest on their investments. ETH Rift focuses on seamless UX and low transaction fees. Limechain is doing the whole product development, including UX/UI design, payment provider and KYC integrations.



A network built on neutral,  
open-access infrastructure,  
controlled by no company.







## Case Studies: Arxum

46

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Web3 Solutions

**Type:** Supply Chain Platform

**LimeChain Involvement:** End-to-end product development

**Project Description:** **ARXUM** is a blockchain-enabled Supply Chain Management platform which uses blockchain to overcome unstructured data, missing interfaces and lack of trust between contract partners alongside a company's Supply Chain.



ARXUM



# Case Studies: **SteelTrace**



47

**Type:** Supply Chain Solution for the Steel Industry

**LimeChain Involvement:** Product Development

**Project Description:** **SteelTrace** is a blockchain based platform that enables traceability of steel quality via the first true digital certificate. The SteelTrace platform enables data storage in an unchangeable format, exchange of ownership of certificate instead of sending copies, traceable ownership to the original source and data storage so that machines can understand the content of the certificate.





## Case Studies: Celo

48

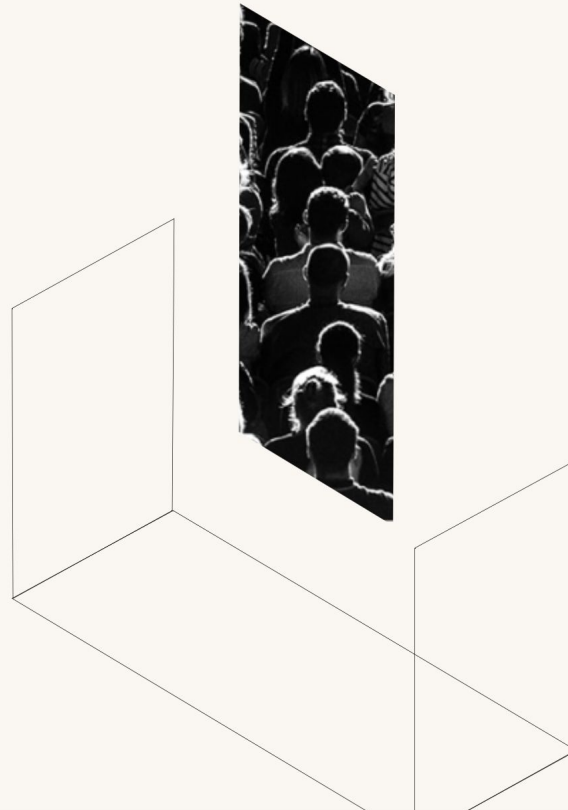
Blockchain &  
Web3 Solutions

**Type:** Blockchain Network

**LimeChain Involvement:** Development Partner

**Project Description:** **Celo** is a blockchain protocol providing mobile-first tools for financial inclusion in emerging markets. Backed by Andreessen Horowitz, Coinbase Ventures and others, the Celo team partnered with LimeChain for Solidity-based smart contract development.

# CELO





## Case Studies: DAOstack

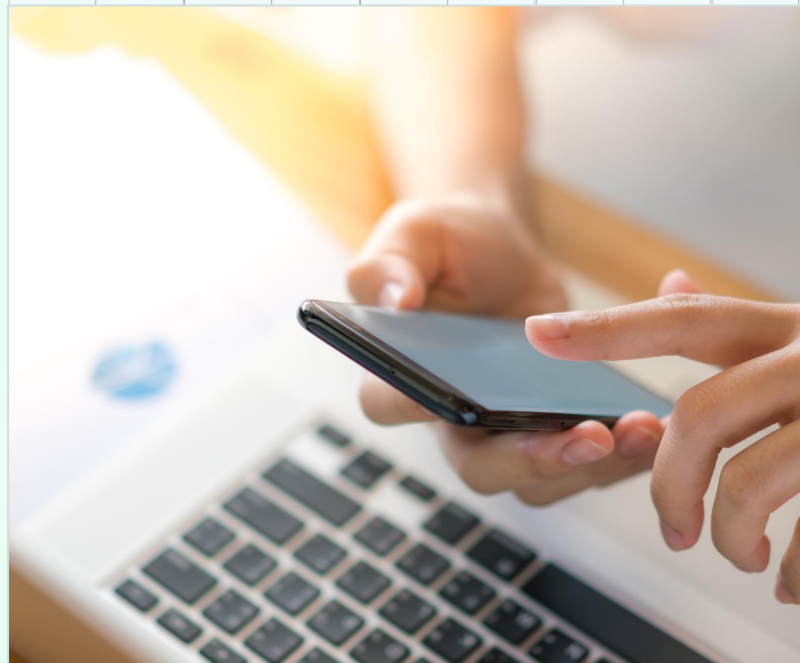
**Type:** Crowdfunding dApp

**LimeChain Involvement:** Development Partner

**Project Description:** **DAOStack** is an Ethereum-based platform enabling people to build and participate in Decentralized Autonomous Organizations (DAOs). LimeChain works with DAOStack on their Common mobile app enabling groups of people to collaborate on shared agendas by pooling funds and collectively making decisions. The project is built in such a way to abstract the blockchain, crypto, and DAO complexities, providing a seamless user experience even for non-techies.



DAOstack





## Case Studies: Propy



50

**Type:** Real Estate Tokenization

**LimeChain Involvement:** Product Development

**Project Description:** Propy is a global real estate marketplace dedicated to solving the problems of purchasing property across borders. This is done by creating a novel unified property store and asset transfer platform for the global real estate industry. Propy allows buyers, sellers, brokers, and escrow/title agents/notaries to come together through the utilization of a suite of smart contracts on Blockchain to facilitate transactions.







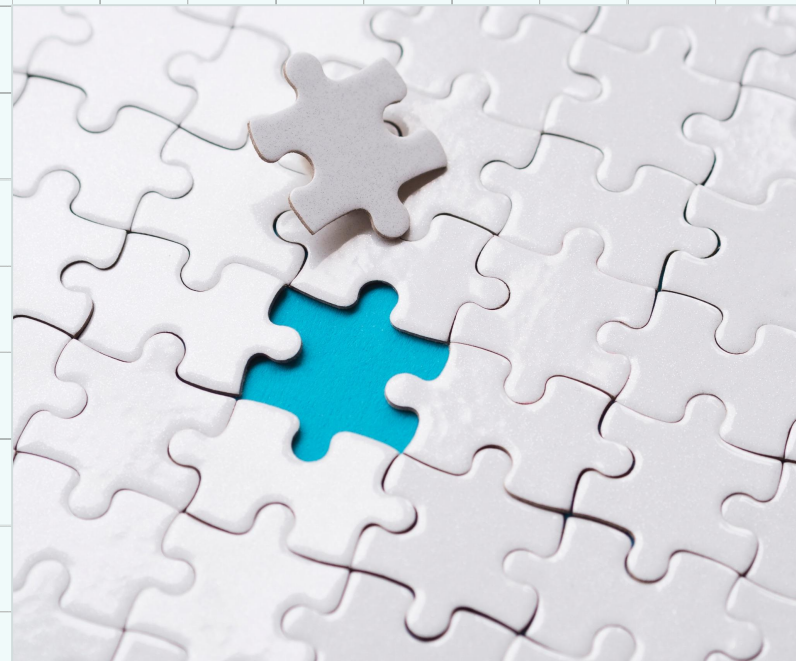
# Case Studies: **Baseline protocol**



**Type:** Blockchain to ERP Integration

**LimeChain Involvement:** Integration Partner

**Project Description:** LimeChain has developed a demo with Google Sheets and Microsoft Dynamics 365 using Baseline Protocol (and public Ethereum) as a way to create a common frame of reference. This approach creates multiple benefits for both bigger companies that already have ERP in place, as well for the smaller companies that are using spreadsheets as a business tool, allowing both parties to easily engage with each other.





## Case Studies: Vaultitude



**Vaultitude**

52

**Type:** IP protection and proof of authorship

**LimeChain Involvement:** LimeChain created the whole Blockchain architecture, developed the ICO and prototype.

**Project Description:** **Vaultitude** complements traditional IP protection strategies by offering proof of authorship via secure digital publication on the Blockchain. This way, artists interests are protected by safely sharing and transferring IP. It is the fastest, easiest, safest and cheapest way of establishing documented ownership of intellectual property protection.







## Case Studies: Universe (NFTs)

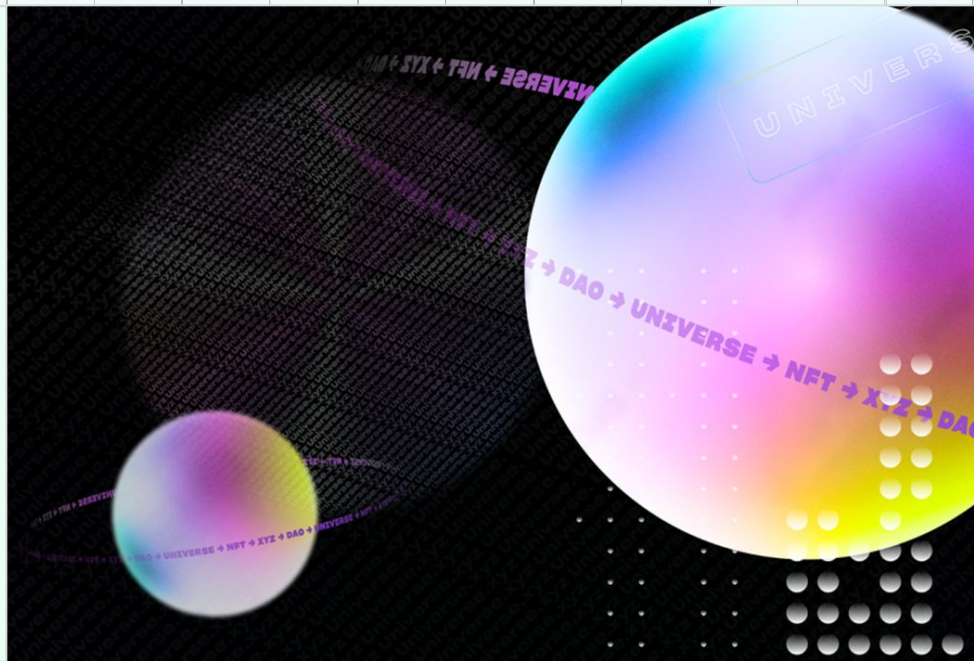


53

**Type:** NFT Marketplace

**LimeChain Involvement:** End-to-end product development

**Project Description:** **Universe.xyz** (governed by the XYZ DAO) is a decentralized NFT marketplace. LimeChain is working on the core marketplace products, as well as responsible for the technology behind Universe's two successful NFT drops - Polymorphs and Lobby Lobsters.



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# Thank you!



**BDM name**

+359 888 888 888

name@limechain.tech