



Blockchain & Web3 Solutions

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



Lime Companies



Innovation Research and
Development



Blockchain & web3
Development Company



Blockchain Learning and
tailor made trainings



About LimeChain

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.

Founded: 2017

Location: London, UK & Sofia, Bulgaria



Notable clients and partners:





Services Overview

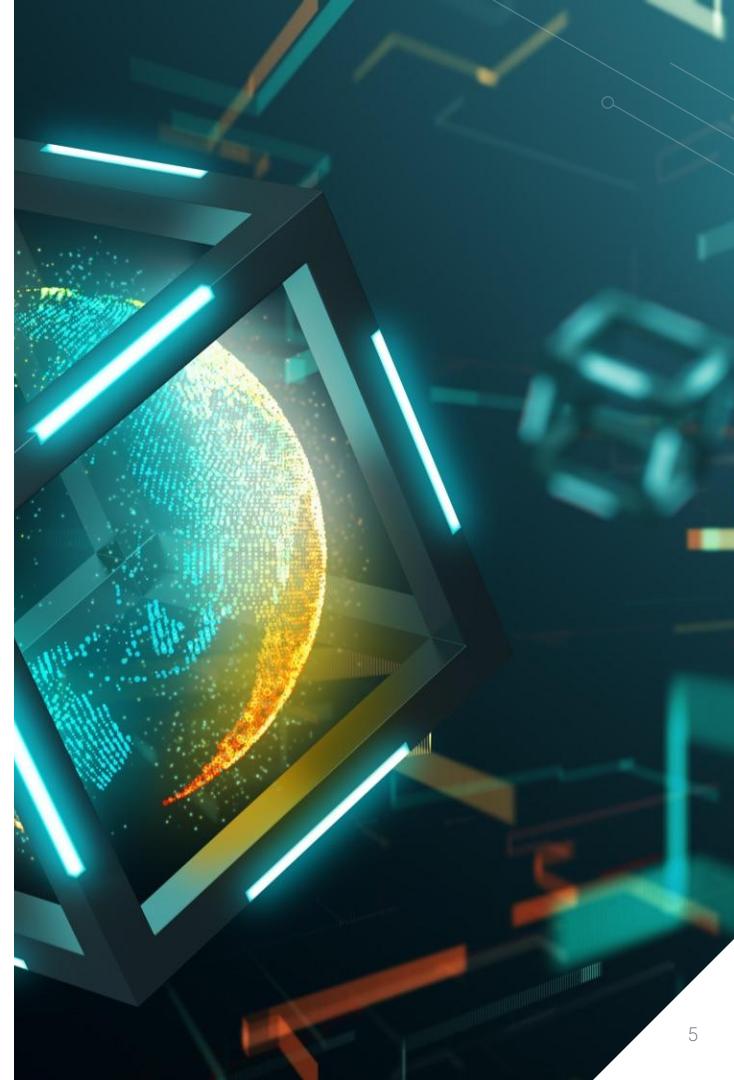
- Complete Product Development
- Blockchain Tech Consulting
- Team Extension
- PoC & MVP Development
- Smart Contract Development
- Web & Mobile Development
- UX/UI Design
- Solution architecture design consultancy





Solutions Development

- **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



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.

- **Blockchain & Smart Contract Development**
- **Front-end Development**
- **Back-end Development**
- **Tech Integrations**
- **Web3 UI/UX Design**

Notable clients and partners:



DAOstack



Hedera
Hashgraph



Ledger





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**

Notable clients and partners:



CUDOS



MANTRA DAO



AllianceBlock

ONE RIVER
ASSET MANAGEMENT

MANTRA Finance



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.

- **Blockchain & DLT Consulting**
- **Proof of Concept Development**
- **Technical Support**

Notable clients and partners:





Network and Protocol Core Development

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.

- **Protocol Development**
- **Developer Tools**
- **SDKs**

Notable clients and partners:



The Graph

Polkadot.



**Hedera
Hashgraph**



CUDOS

MANTRA Chain

 **Filecoin**

 **near**



Optimism



Development Approach

- **Technology agnostic**

LimeChain is not tied to one particular blockchain network or technology, instead we use the best technological 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



Hedera
Hashgraph



DAOstack



CUDOS





Partners



* Forta





Developer Tools

LimeChain has developed tooling for the following blockchain protocols:



ethereum

c·rda

Polkadot.



baseline



E O S

∞
æternity
BLOCKCHAIN



Matchstick

C Ø S M O S

N NEAR



Technological Stack

Blockchain



The Graph

Polkadot.



HYPERLEDGER



Hedera
Hashgraph



ethereum

Flowty.tm

celo

corda

COSMOS



polygon zkEVM

Infrastructure



Google Cloud



Azure



IPFS



docker



kubernetes

Backend



nest



Frontend



ANGULAR



React



React Native



Vue.js



Swift



SVELTE

Case Studies





Case Studies: The Graph

Type:

Developer Tooling

LimeChain Involvement:

Tools Development

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.





Case Studies: IMVU

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

Type:

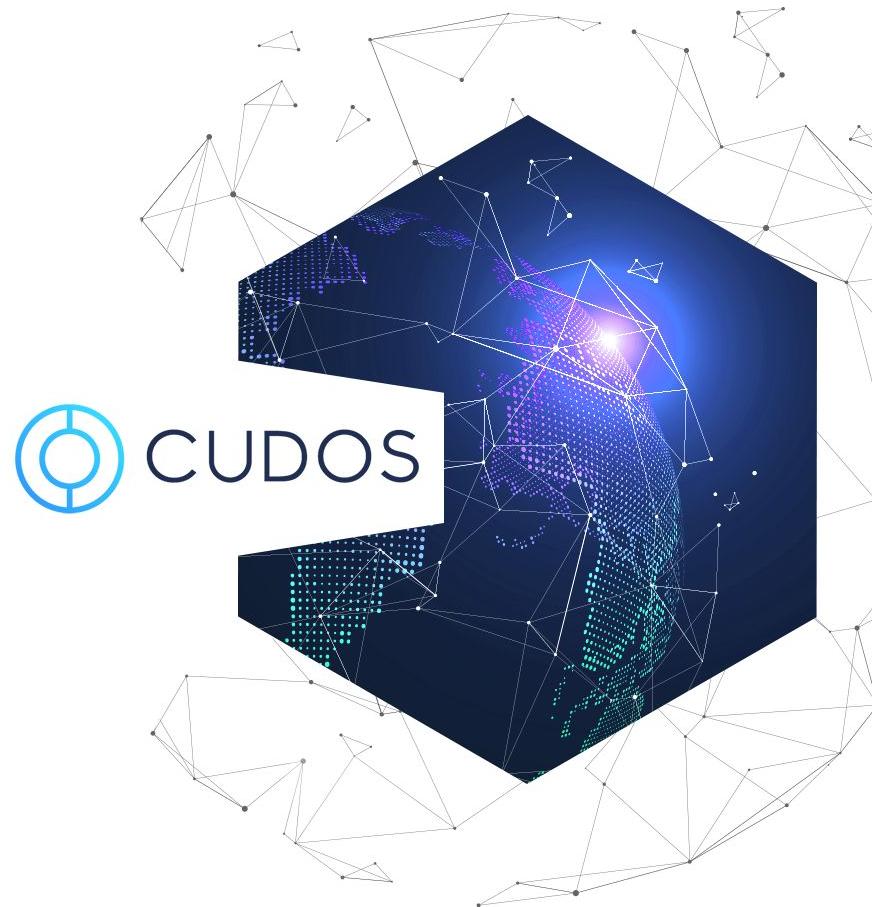
Decentralized cloud computing

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

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

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: Fruzhin

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: Mantra DAO

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

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.





Case Studies: Hedera

Type:

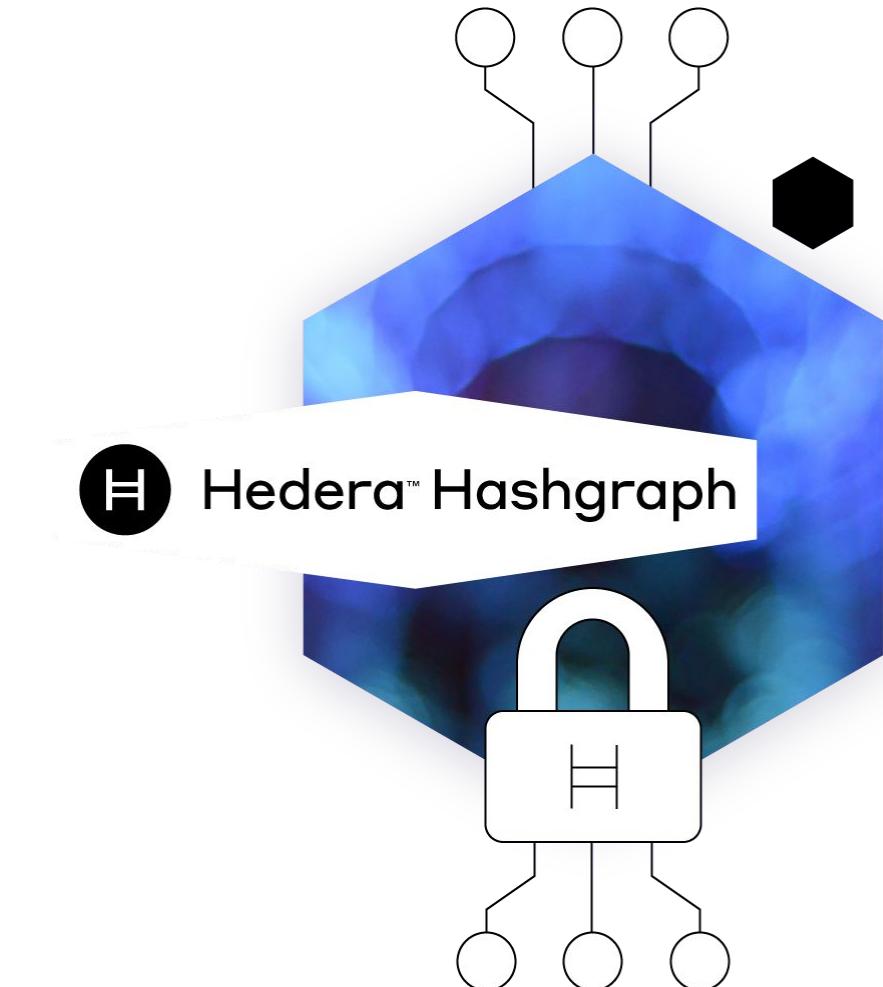
Blockchain Network

LimeChain Involvement:

Development Partner for Product Development & Research

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: Polkadot

Type:

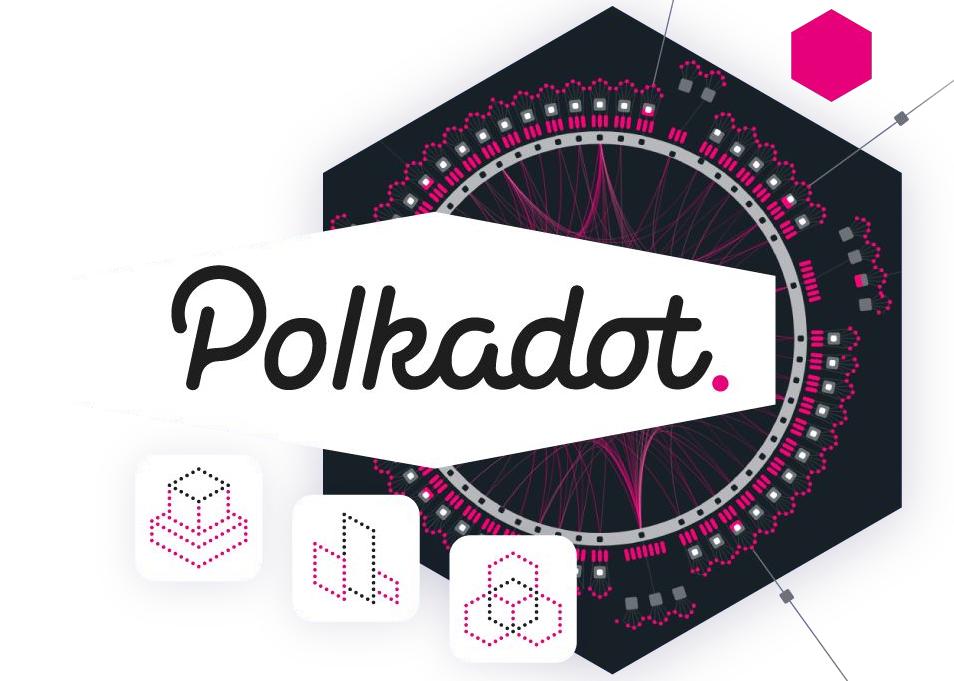
Blockchain Infrastructure

LimeChain Involvement:

Development of tooling for the Polkadot developer ecosystem

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: AllianceBlock

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

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

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.





Case Studies: P&G

Type:

Enterprise Solution

LimeChain Involvement:

Proof of Concept Development

Project Description:

LimeChain developed a private blockchain Proof of Concept solution based on HyperLedger Fabric that optimizes **P&G's** claim management process and the relationship with its customers. Acting as a common platform for the commercial counterparties, the solution enables participants in the network to upload contract meta data on the blockchain and automate the claim management process.





Case Studies: Arxum

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.





Case Studies: SteelTrace

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

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 Andressen Horowitz, Coinbase Ventures and others, the Celo team partnered with LimeChain for Solidity-based smart contract development.





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.





Case Studies: Propy

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:

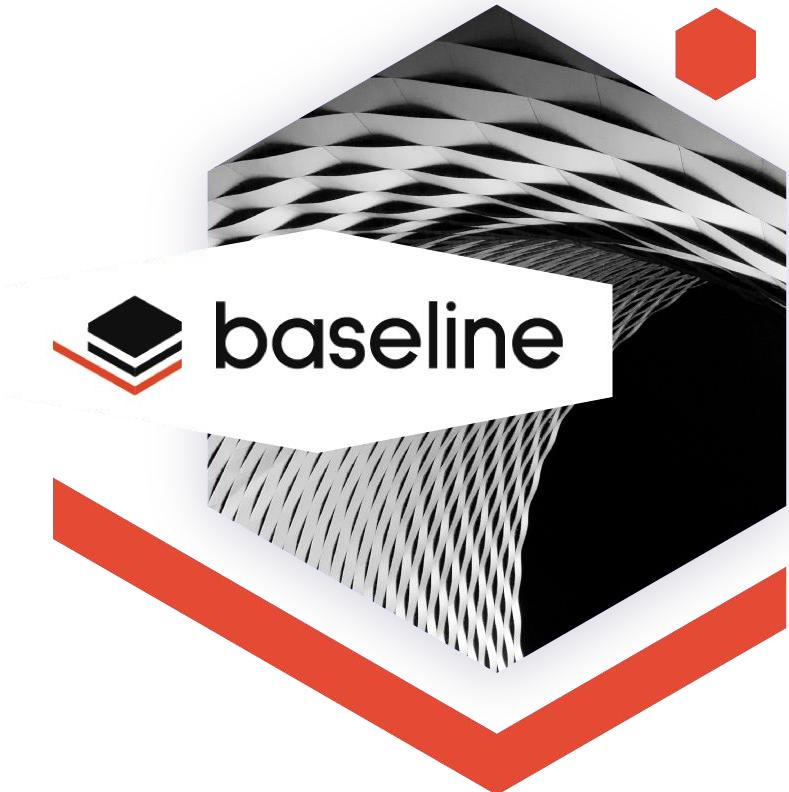
Blockchain to ERP Integration

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

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)

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.





Case Studies: Near

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: 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.





Case Studies: Tokenized loans

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: Luxury car brand

Type:

Brand loyalty tokenized platform

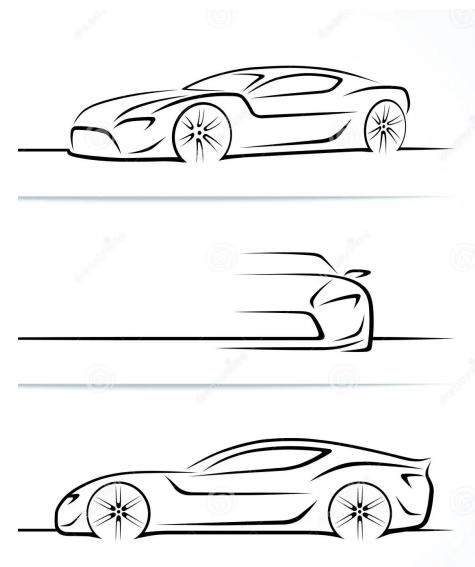
LimeChain Involvement:

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: Parfin

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

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: 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.





Case Studies: Filecoin

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.



Filecoin



Case Studies: Polygon zkEVM

Type:

Layer 2 rollup

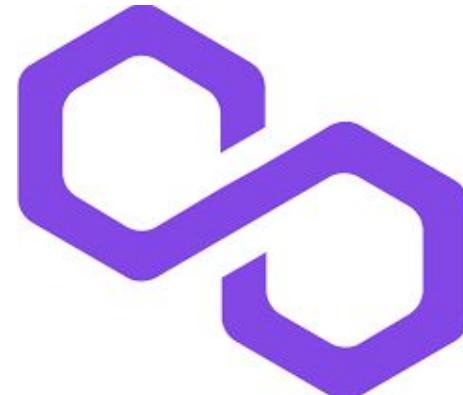
LimeChain Involvement:

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: Optimism

Type:

L2

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

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: 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: Scroll

Type:

LimeChain Involvement:

Infrastructure building

Project Description:





Thank you!

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