

For a fintech platform tokenizing physical assets

We enabled secure digital diamond ownership with a blockchain-powered issuance and verification system.

A Ccube Case Study





#### **Problem Statement**



Diamonds lacked standardization, making them unsuitable for regulated investment

No secure digital link between physical assets and verifiable ownership records

Manual verification processes hindered transparency and auditability



Investors lacked real-time tools to track asset provenance and manage custody







## Solution

- Blockchain-based platform for tokenized diamond issuance and ownership
- Smart contract integration to digitally link physical diamonds with unique records
- Secure wallet and compliance infrastructure for investors, auditors, and custodians
- Real-time verification, custody management, and exchange-readiness for digital assets

#### **Our Tech Stack**

•	Ethereum
•	Hedera
•	Solidity
•	ERC-721
•	ERC-20
•	React
•	Next.js

TypeScript
Node.js
NestJS
GraphQL
AWS
IPFS

Cloudflare

MetaMask

WalletConnect

• mTLS

• JWT

Sentry



### Process

Developed smart contracts to tokenize certified diamond assets

Integrated Ethereum & Hedera for immutable ownership tracking

Built investor and auditor portals with React and GraphQL



Enabled secure wallet access via MetaMask and WalletConnect

Deployed on AWS and IPFS for scalable, decentralized operations







- Tokenized thousands of certified diamond assets
- Enabled multi-million USD digital commodity trades
- Improved auditability and investor trust via blockchain
- Ensured regulatory compliance with real-time verification

#### Supported global access with 30%+ mobile user adoption





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