

# EduBlock

## Litepaper

### EduBlock: Decentralized Academic Certification Using Blockchain and NFTs

#### Introduction

EduBlock is a Web3 platform that leverages blockchain technology and NFTs to issue, verify, and store academic certificates in a secure, tamper-proof, and globally accessible way.

#### Problem

Academic certificates are still issued in paper or centralized formats. These are vulnerable to fraud and hard to verify across borders.

#### Solution

EduBlock issues academic credentials as NFTs on a public blockchain. Each certificate is:

- Unique (identity hash linked)
- Verifiable (on-chain data)
- Immutable (tamper-proof)
- Owned by the student

#### How It Works

1. Verified institutions join the platform
2. NFTs are issued for completed programs
3. Students receive credentials in their wallet
4. Anyone can verify certificates via blockchain lookup

#### Technology Stack

- Blockchain: Polygon
- NFT Standard: ERC-721
- ID: Decentralized Identifiers (DID)
- UI: React + Web3.js
- Metadata: IPFS

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## Roadmap

Q1: MVP launch

Q2: Beta and mobile wallet

Q3: Public release with 10+ institutions

Q4: DAO and staking

## Vision

EduBlock aims to make academic credentials secure, portable, and instantly verifiable worldwide.