



VERIFIED DIPLOMA

An educational program to give senior students an experience with the power of Web3 and interaction with blockchain technology

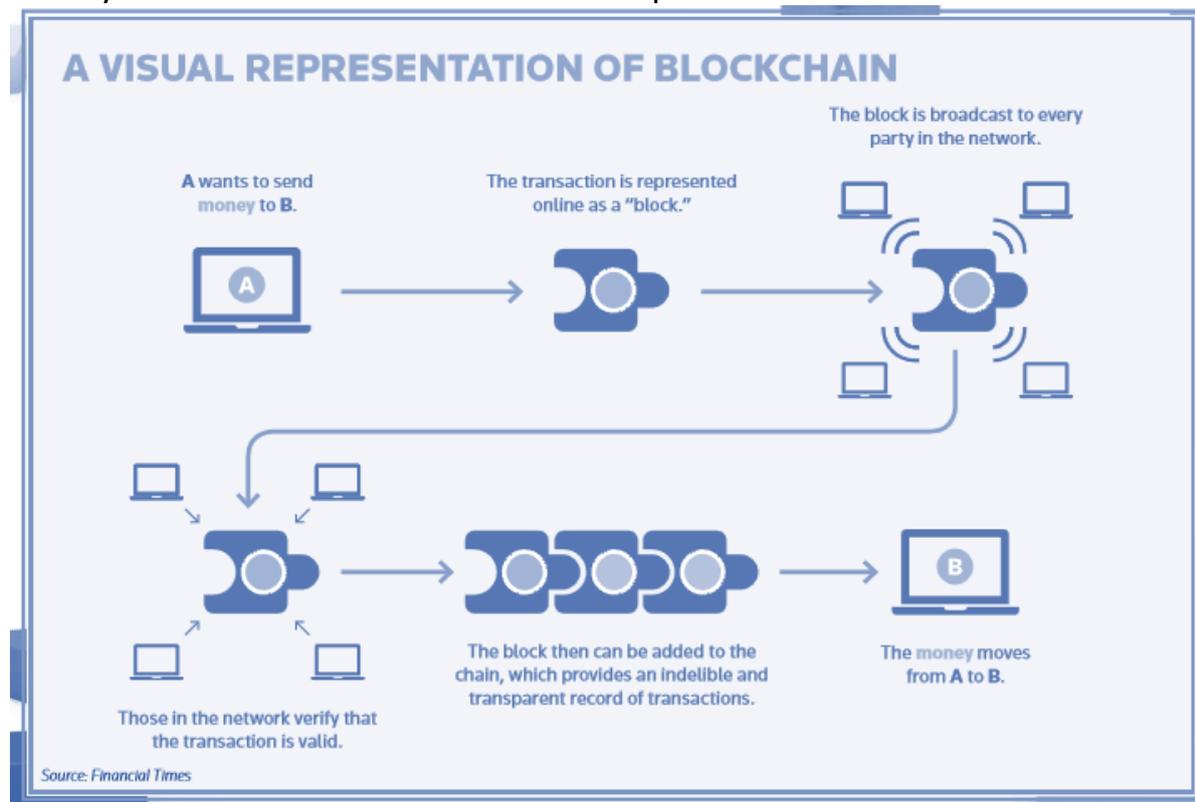
By: Abraham Pohler

Phone: (513) 722-5996

Email: abrahampohler@gmail.com

Understanding Cryptocurrency, Blockchain, and NFT's

Cryptocurrency first came to creation through the introduction of Bitcoin by Satoshi Nakamoto, an alias. The first line of the Bitcoin white paper reads, "A purely peer-to-peer version of electronic cash would allow online payments to be sent directly from one party to another without going through a financial institution". The goal of bitcoin was to create a cash for the internet, a form of payment that empowers the consumer bypassing banks. The technology that allows for this digital cash system is blockchain. Blockchain is a computer that runs on computers around the world that stores and verifies transaction history. The illustration demonstrates the process of a transaction



Bitcoin created the first blockchain that can store transactional record, but with technological advances blockchains now have additional token structures on top the native coin. With these unique token structures items known as non-fungible tokens are now creatable. A non-fungible token is a non-interchangeable unit of data stored on a blockchain, a form of digital ledger, that can be sold and traded. Types of NFT data units may be associated with digital files such as photos, videos, and audio. Being noninterchangeable means that my NFT is not equal to your NFT they are unique identities and therefore a form of creating digital ownership.

Real World Use Cases

Art

Currently, the largest aspect of NFT's is being used to empower artist to create digital works. This new form of being able to own a digital painting or art is created through blockchain technology. NFT's technology has now created a new market for digital assets. Each NFT's artworks history is permanent and public. For example, what if we were able to know for 100% certainty exactly when the Mona Lisa was created by Leonardo De Vinci, who has owned it throughout its life, and for what price. NFT's give us this power to track a physical item or real-world accomplishment with a digital asset.

Ticketing

Already we have seen a once physical ticket or printed ticket turn into a digital ticket stored on your phone. With blockchain and NFT's tickets will be able to be easily verifiable as well as secure. Additionally, companies will be able to release tickets direct to consumers without the need of Ticketmaster fees. Your NFT will contain the rights to enter the venue and give you ease to sell and transfer the ticket on a secondary market without fees.

Automotive

Titles to vehicles can easily be partnered with a digital NFT that contains the ownership of the vehicle. No longer will you have to file your titles, but instead have a digital title verified by the blockchain and DMV.

Gaming

NFT's are beginning to be incorporated into gaming with digital ownership and scarcity of in game items. Fortnite was the highest grossing game in 2020 at an estimated \$1.8 Billion and the game was free to download and play. The revenue was directly dependent on the sale of in game skins that change the look of your character. In the future these characters will have limited supply NFTs creating a higher value and scarce object in game.

Textbooks

With the move to school online textbooks have been acquired more and more in digital form. Currently, students will pay \$100 and more to have access to a digital textbook for the duration of the class. The student has no ownership rights and is leasing a digital copy. NFT's will allow for a digitized transferable

market for digital textbooks. Students will be able to own the digital NFT textbook rather than pay \$100 for access for one semester.

Housing

The first NFT house sold in an online auction in February 2022 in Tampa, FL. Completely through the purchase of an NFT that had the ownership rights tied to it. The company Propy went through the normal process of buying a home with inspections and all necessary paperwork. Then transferred the ownership of the house into an LLC that then the rights for the LLC were tied to the NFT. When the cryptocurrency was paid, the LLC was instantly transferred to the new owner.

Institutional Use Cases

IBM

Is developing a marketplace that digitizes the ownership of patents as NFT's allowing for the simple buying and selling of patents.

Nike

Patented the right to create virtual sneakers utilizing blockchain technology. Acquired RTFKT a NFT sneaker creator valued at \$33 million with 15 employees.

Facebook

Has changed their name to Meta in a hope to create a centralized metaverse and create a digital economy.

Adidas

Partners with Bored Ape Yacht Club to release a NFT collection featuring Bored Ape artwork with adidas clothing included with the purchase of the NFT.

Christie's Auction House

Now allows for the auctioning of NFTs and has sold a Cryptopunk collection for \$17 million.

Beeple

A digital artist created an NFT of his first 5000 days of creating digital artwork that sold for \$69 million at Christie's Auction House.

Mastercard

Has partnered with Coinbase a cryptocurrency and NFT exchange to create a system to allow for purchasing NFT's with Mastercard.

Verified Diploma

Purpose

Verified Diploma's goal is to give every student an interaction and education into the coming new world of Web3. We believe that with this early action students will be better equipped and positioned to succeed in STEM.

Program

The educational component of Verified Diploma will walk students through the introductory material of how to interact safely and securely with cryptocurrency and blockchain. Students will learn a brief history of Bitcoin, "the father of cryptocurrency". With this foundational knowledge students will grasp the understanding of blockchain as a store of data or a digital ledger. Additionally, students will be introduced to the idea of blockchain computing and how consensus is made. Students will then continue to learn about crypto wallets and the different forms. Furthermore, a large section of this time will be spent discussing wallet security and digital security. Culminating in the students creating a software wallet and receiving a minted diploma representing their true diploma as an NFT on the polygon blockchain.

Verified Diploma NFT

The NFT minted by Verified Diploma will be a digital representation of the real-world accomplishment achieved. The NFT can contain additional data pertaining to club involvement, sports involvement, or honours. This NFT will be a digital asset that verifies each student's accomplishment.

Safety and Security

A Verified Diploma NFT is safe and secure through the transparent blockchain history. Our Verified Diploma NFT stands apart due to the contract and rights to grant the document for the school. Students cannot create an imitation document because the original mint transaction will show it did not come from the institution. Equally important, the software wallets created by the students are secured by a 12-word passphrase. Each student's information is secure in the wallet and no social security number or identification is necessary to create a wallet. Moreover, in our program students will be educated in securing their wallets from attack.

Future

We at Verified Diploma are pioneering the future of digital assets and certifications of real-world educational documents. We envision a future where students are empowered with ownership of their documents. With Verified Diploma's NFT educational documents applications to both higher education and jobs will be streamlined in the future.

Works Cited

[IBM NFT Patent Marketplace](#)

[Nike Acquires NFT company](#)

[Facebook goes meta](#)

[Adidas partners with BAYC](#)

[Christies Auction House](#)

[Beeple artwork](#)



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