Blockchain and Cryptocurrency

Cryptocurrency is one of the words you can’t avoid these days. News, blogs and even big-time financial authorities obsess over it, and by now everyone has to admit: the world is changing in front of our eyes. Miss this bandwagon now and you will be left so far behind that you might never recover.

A Cryptocurrency can be defined as a digital currency relying on encryption to generate new units and confirm the transactions. It has all the functions of a currency with the difference of running outside of a single centralized platform, such as a bank. These cryptocurrency have to be maintained using a single immutable ledger using the blockchain. Cryptocurrency mining is done in order to verify the ledger where all the nodes (peers) connected on the network use standard consensus protocols for verifying various transactions carried out by the users.

This brings us to understand what exactly blockchain is and why we should use this amazing technology in our applications. A Blockchain is a distributed database that is shared among the nodes of a computer network, it stores information in digital format and is basically just as the name suggests, each block contain a unique signature and any data to be stored along with the signature of the previous block forming a chain as the data grows. Blockchains are best known for their crucial role in cryptocurrency systems, such as Bitcoin, for maintaining a secure and decentralized record of transactions. The innovation with a blockchain is that it guarantees the fidelity and security of a record of data and generates trust without the need for a trusted third party.

The goal of blockchain is to allow digital information to be recorded and distributed, but not edited. In this way, a blockchain is the foundation for immutable ledgers, or records of transactions that cannot be altered, deleted, or destroyed. This is why blockchains are also known as a distributed ledger technology (DLT).

With many practical applications for the technology already being implemented and explored, blockchain is finally making a name for itself mainly because of various cryptocurrencies and Bitcoin. Blockchain is the future to make businesses and government operations more accurate, efficient, secure and cheap with fewer middlemen.













