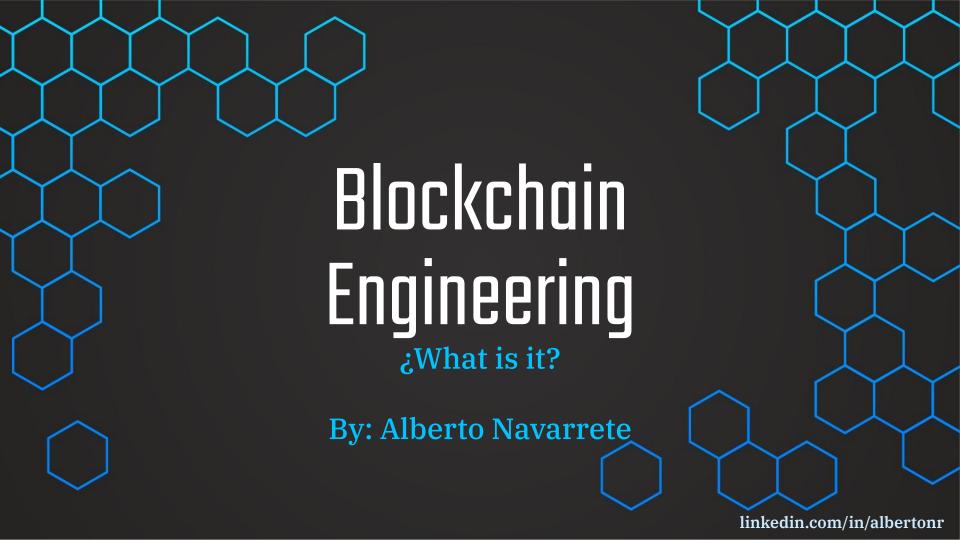
#### Inspired by:



### D#TA SCIENCE INSTITUTE



The World Data Science Institute is a Financial Data Science Research & Development Company!





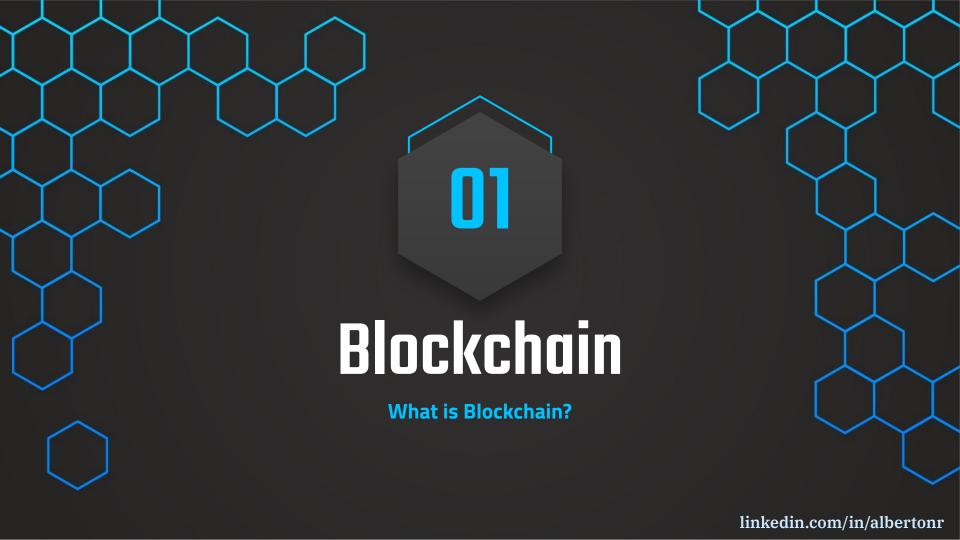
### **Blockchain Engineer**



Blockchain engineers can do a lot of things, but they specialize in creating technology and implementing digital solutions for organizations using BLOCKCHAIN.

But first, do you already know what is Blockchain?







Have you ever wondered, if your voting pallet was really considered, or if your sensitive or important data was altered in a process?



Blockchain is an immutable, decentralized recording information system, an immutable digital ledger.

What means that you can't edit a recorded transaction, making it trackable and fraud proof.





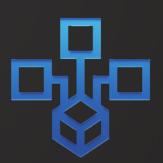
### Blockchain is made of nodes...



Every blockchain has several nodes known as a "Block", each block is an individual ledger that records every transaction made in the blockchain, and it can be anywhere, and with anyone.

The group of several nodes makes a blockchain, making them not just decentralized but distributed.

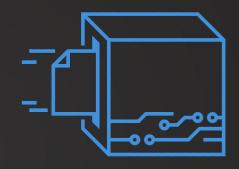
Making it difficult to take down or corrupting it.





### But, how does it works?

Every transaction that gets in into the blockchain, is distributed between blocks via "gossip protocol".





And blockchain has different applications without having a middleman involved, such as finance, marketplaces, secure sharing of data, health care, among others.

All those in a secure and trustful system with smart contracts incorporated.





### Nearly the same, but one is just better



### Contract

Slow and with paperwork

Trust issues

Manually filled, and with errors

Third party involved



### **Smart Contract**

No trust issues

Executed immediately

Encrypted, transparent and accurate

No third party involved

### And if the benefits weren't clear...

They are only executed when a 2 parts condition is fulfiled.

Traceable, and immutable.

No third party involved.



Encrypted, which makes them hard to hack.

Trustable and transparent, by being in a blockchain.

Digital, automated, efficient and accurate.

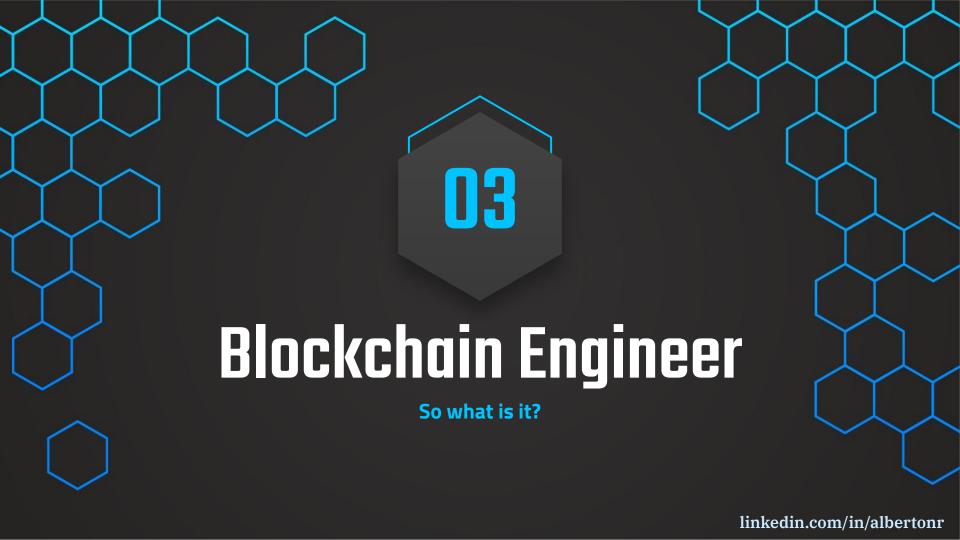
## Food For ensuring safer food **Containers** For making a trustable supply chain **Finance** For faster transactions

### **Aplications of Blockchain**



#### **Businesses**

For trustable suppliers.







They are the experts behind the development of computer networking, cryptography, and algorithms.

With high skills for developing and implementing digital solutions using blockchain technology or as consultors.





### What do they do?

They build, develop, implement, and advise all kind of solutions for problems using blockchain technology.





They also can perform operations, design, analyze and support distributed blockchain networks, being able to manage specific business models based on the needs of the clients.

# Where do they work and who uses blockchain?







### **Major Requirements**



#### Degree

Bachelor's degree in CS, Information systems or related.



#### **Cryptography**

Being a cryptography master.



#### Knowledge

General blockchain knowledge about ecosystems, platforms, and interoperability.



#### Front - Back End

Front and Back End development knowledge.



#### **Data Structures**

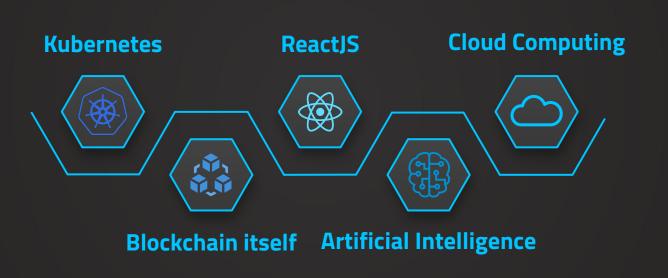
Patricia and merkle trees, and hash functions.



#### P. Languages

Being proficient in Java, C++, Python, Solidity.

### What do they use?





### But, what about their tools?

#### Truffle

Toolbox for smart contracts developer.

Trufflesuite.com

### Hardhat

Ethereum development environment.

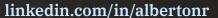
Hardhat.org

### Remix

Open source IDLE for contract development.

Remix.ethereum.org

And more...





### Some blockchain projects



#### **Bitcoin**

Leader crypto in the market.



### Ethereum

Open source platform for decentralized applications.





### Some blockchain projects



#### **Polkadot**

Network protocol for data and tokens transfer across Blockchains.



### **Chainlink**

Network that provides data from off-blockchain sources via oracles.





### Some blockchain projects



#### DeFi

Decentralized Finance projects.



### **Blockchain voting**

Blockchain voting platforms for fraud prevention.





### And much more!



#### Bitcoin

Leader crypto in the market.



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Decentralized Finance projects.



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	High Base	Low Base	Average
Solidity developer in US	\$180,000	\$80,000	\$127,500



	High Base	Low Base	Average
Solidity developer in Asia	\$150,000	\$100,000	\$125,000



	High Base	Low Base	Average
Remote Solidity developer	\$200,000	\$100,000	\$145,000



# The community is awesome!

### ETH Global

Ethereum global community, organizes hackathons, strengthen developer communities, and push limits of new technologies



### **Networking everywhere!**



## Chainlink community

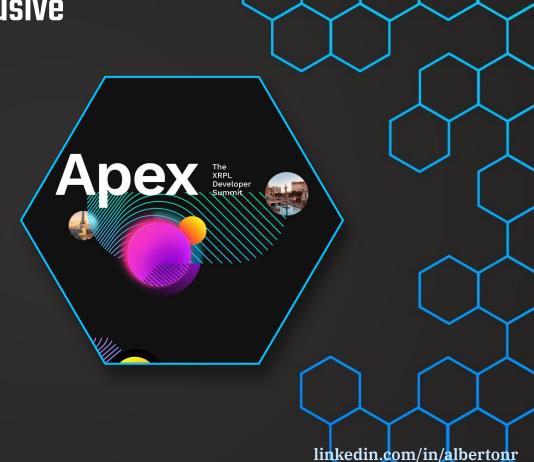
Chainlink global community dedicated to advancing smart contracts!



Fenomenal, inclusive and fun!

### Apex, XRPL Dev Summit.

Annual event where developers, contributors and thought leaders come together to learn, build, share, network and celebrate all things XRP Ledger.





### **Blockchain Engineering Presentation**

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