



Blockchain & ConsenSys

How to become a blockchain Developer?



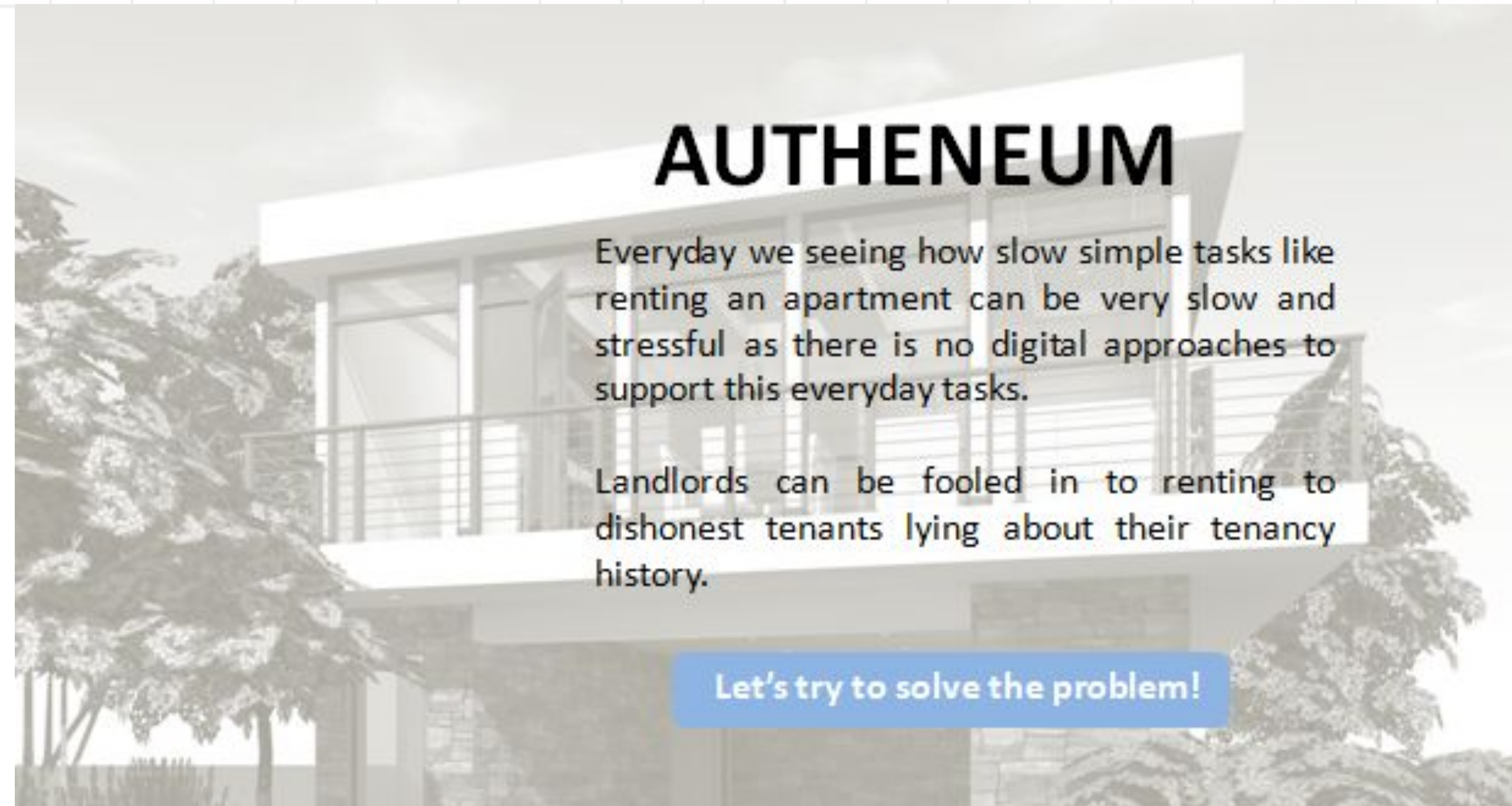
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- Blockchain Hackathon
- What's Blockchain?
- What's Ethereum?
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Hackathon: AUTHENEUM



Hackathon: AUTHereum

Rent Instance

Charl has arrived over from South Africa. In Capetown he has 3 previous successful tenancies. However his references are just on paper so will the landlord be convinced.



Hackathon: UTHENEUM

 Developer Student Clubs

Demo

What is Blockchain?

Blockchain is a distinct type of **Distributed Ledger Technology (DLT)**, or a **write-once database**, so it records an **immutable record of every transaction** that occurs.

There are **many replicas of the blockchain** database which **stops one participant tampering** with it. Consensus among majority participants is needed to update the database.

Asymmetrical cryptography is a system of **public and private keys** which allows users to confidently exchange encrypted information with unknown third parties -- **Hash Function** with Elliptic Curve Cryptography(ECC)

A consensus algorithm is a process used to achieve agreement on a single piece of information among distributed processes or systems. (**Proof-Of-Work & Proof-Of-Stake**)

What is Blockchain?



What is Ethereum?

Ethereum is the first blockchain infrastructure with a built-in Turing-complete virtual machine within the full security of the blockchain protocol.



Formally specified security and smart contract capabilities



Vendor-neutral



Public-private blockchains compatibility



Private, permissioned blockchains for enterprise and government use cases



Rapidly growing community encompassing 30,000+ developers



Multi-billion dollars of value protected on the public network



Enterprise Ethereum Alliance (EEA) is growing faster than all other blockchain consortia



The dominant platform for the 'token ecosystem'

Who Are ConsenSys?

Infrastructure

Help grow the ecosystem by building and maintaining core developer tools and clients

CONSENSYS CAPITAL

Provides token services, crypto asset management and venture capital



CONSENSYS LABS

Incubate new companies developing decentralized applications on the Ethereum blockchain

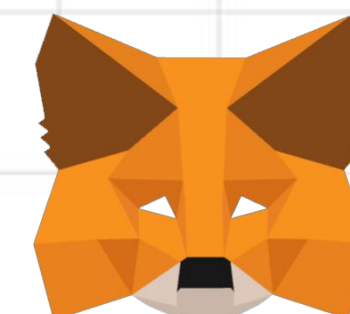
CONSENSYS ACADEMY

Educate developers and entrepreneurs about Ethereum through training programs

CONSENSYS SOLUTIONS

Consult and deliver production ready blockchain solutions for the Enterprise and Government markets

#EuropeDSCSummit
#DeveloperStudentClubs



KALEIDO



Internship: CodeFi



 Developer Student Clubs

CodeFi is the blockchain operating system powering commerce and finance, built to optimize business processes and digitize financial instruments.



Assets

A platform to create, issue, and manage the lifecycle of digital assets, associated markets, and digital financial instruments on public or permissioned blockchain networks. [Learn more.](#)



Payments

A platform to send, receive, and manage cryptocurrency payments and revenue within a single dashboard. [Learn more.](#)



Networks

A suite of tools empowering anyone to utilize tokens and participate in decentralized networks. [Learn more.](#)



Data

A data, analytics, and risk management engine for digital assets, public blockchain tokens, and their growing networks. [Learn more.](#)

Internship: Token

Tokens could represent everything of value – physical goods, loyalty points, real estate, creative productions (works of art, music, etc), service leases and time-shares, securities, and a lot more.

Security and asset-backed tokens will provide for:



Learning Resources

1. Cryptozombie (Dapp) <https://cryptozombies.io/>
2. Solidity <https://solidity.readthedocs.io/en/latest/>
3. Truffle Tutorial <https://www.trufflesuite.com/tutorials>
4. Metamask <https://metamask.io/>
5. Rinkeby (Testnet) <https://www.rinkeby.io/#stats>
6. Developer Program On Demand (ConsenSys) <https://consensys.net/academy/ondemand/>
7. Ethereum Toolkit <https://github.com/ConsenSys/ethereum-developer-tools-list>

