



HKBCS DappCamp International Student Blockchain Competition

EduCertChain

Blockchain for universities to issue
virtual credentials



Team: FinTechPassion

Kavis, Cho Tsz Kin

Roman, Yuen Ching Hin

Alex, Chu Lap Tung

Chon, Yeung Chun Yin

High School Order Forms

Fake USA High School Diploma

Fake High School Diploma Canada

Fake USA High School Transcripts

Fake Canada High School
Transcripts

Australia Order Forms

Fake Diploma Australia

Fake Transcript Australia

Canada Order Forms

Fake College Diploma Canada

Fake Canada College Transcripts



Fake USA GED Transcripts



[Read Verified Reviews](#)

USD \$79.00

[More Info ... ➔](#)



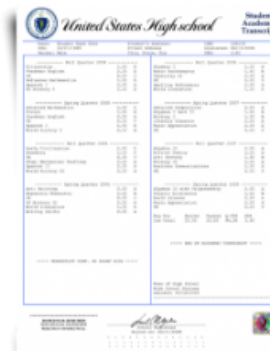
Fake Canada GED Transcript



[Read Verified Reviews](#)

USD \$79.00

[More Info ... ➔](#)



Fake USA High School
Transcripts



[Read Verified Reviews](#)

USD \$99.00

[More Info ... ➔](#)

secured by

Problems we are facing

Certifications in different formats need to be proved

- Certification authority as an intermediary to issue the certificates
- Time-consuming and expensive to issue and verify



Authenticate certification requires different parties for approving, so it caused:

- Privacy problem
- Tons of paperwork



How do we solve it?

Blockchain for verifying certificates

- Decentralised
- Certificates cannot be forged
- Identification of different users
- Verification of the certificates can only be performed by anyone who has access right



Benefits of blockchain

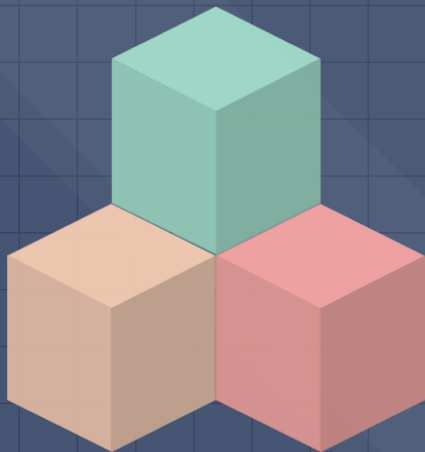
- Trust (Decentralised & cryptographic algorithms)
- High transparency and provenance
- Immutability
- Disintermediation
- Time-saving when transaction is done globally
- unnecessary complex paperwork on signing the transaction



Why it is suitable?

Further benefits

- Secure (verify multi-step accreditation)
- Time-saving (automated process)
- Reducing human-error (Disintermediation)



Two processes Blockchain will be involved

Attestation

Student requests university to attest his/her certificates on Blockchain

Verification

Employer sends a hashed attestation code to the platform to verify the credentials

Why should it be used?

- ▣ Self-ownership of data
- ▣ Usecase: Applying job, Applying university
- ▣ Unauthorized Changes in Credentials can be caught

Foreseeable Challenge

- ▣ Lack of Elasticity

When a transaction is in error, a new block must be created to replace the error block and both are visible in the ledger.



THANKS!

You can find us at

- Kavis:
kavis150183588@gmail.com
- Roman:
jasonyuen1001@gmail.com
- Chon:
chonyeungcy@gmail.com
- Alex:
laptungchu@gmail.com

