## 区块链上的数字毕业证！！!

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*“区块链技术正逐渐渗透到各个行业，听说MIT利用区块链应用程序为学生颁发毕业证，小伙伴们都惊呆了！。”*

随着区块链获得越来越多的信任，很多大型机构逐步开始开展试点项目。今年9月，麻省理工用区块链为学生颁发毕业证，111个毕业生通过特别开发的应用程序Blockcerts Wallet获得了数字毕业证书。

除了为200,000多名学生颁发的纸质毕业证外，麻省理工打破传统，开展基于区块链的试点项目，其中一部分就是为毕业生颁发数字毕业证，此举使得这个毕业季尤其特殊。

于学生而言，这一举动为他们带来的不仅仅是新奇感。只要他们愿意，他们可以即时并且安全的和任何人分享毕业证信息，整个操作过程都是免费的并且不涉及任何中间方参与。毕业生可以轻松访问其可验证且防篡改的信息，在未来找工作或者申请其他学校进行深造的过程中，可以分享给潜在雇主或者学校。由于信息被记录在区块链上，第三方只需访问门户网站，复制链接或者上传数字文件，然后立刻就能确认证书所有人身份，轻松验证其合法性，并不需要联系毕业院校。

据MIT官网解释，该应用程序Blockcerts钱包采用比特币底层技术区块链来保证信息的安全性。下载并使用app时，会生成一对公钥和私钥，私钥由学生自己保存，公钥自动发给学校。学校将接收到的公钥写入数字信息记录中。接着，一个单向哈希值（一串数字，用于后期信息验证）会被添加到区块链上。证书信息本身并没有在区块链上显示，时间戳证明此数字证书来源麻省理工。

Blockcerts Wallet试点项目是由Learning Machine和麻省理工注册办公室联合开发。Learning Machine的CEO，Chris Jagers表示，即使证书机构以及服务供应商以后不存在了，人们仍然可以使用自己在区块链上的官方记录。

标签： 区块链；比特币；数字证书

总浏览数：\*\*\*

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## Diploma On Blockchain!!!

Author: Xue Xu Oct 25, 2017

*“The Blockchain is penetrating into various currently. Isn’t it amazing to have our diploma recorded on Blockchain for permanent storage? Of course it is, and it is impossible to happen years ago.”*

With a growing public trust on Blockchain, many large organizations and institutes also begin their blockchain-based pilots. This September, Massachusetts Institute of Technology (MIT) issued graduate certificates through a Blockchain app Blockcerts, 111 graduates gain their digital diplomas via this special developed app.

Besides the paper diploma, MIT this year launched a Blockchain-based pilot project, the issuance of digital diploma is part of the pilot, which made this graduation season so special.

For students, the benefits of the digital diploma go beyond mere novelty. They can share their diplomas almost immediately with whomever they choose, free of charge, without involving an intermediary. Students can access to the “verifiable” and “tamper-proof” digital diplomas with prospective employers and others they choose in later date. This is particularly important for students who need prove that they have an MIT diploma. Thanks to the blockchain, the third party can easily verify that the diploma is legitimate without having to contact the Registrar’s Office. They can paste a link or upload a student’s digital diploma file via a portal and receive a verification immediately.

According to the explaination from MIT official website, Blockcerts Wallet uses Bitcoin Blockchain to secure the information. After the student downloads the app, it generates the public-private key pair and sends the public key to MIT, where it is written into the digital record. Next, a one-way hash (a string of numbers that can be used for verification later) is added to the blockchain. The diploma information itself doesn’t go onto the blockchain, just the timestamped transaction indicating that MIT created the digital record.

The pilot resulted from a partnership between the MIT Registrar’s Office and Learning Machine, a Cambridge, Massachusetts-based software development company. “The issued official records in a format that can exist even if the institution goes away.” Said Chris Jagers, CEO of Learning Machine.

Tags：Blockchain; Bitcoin; Digital diploma

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