

# Using the blockchain for data storage

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## Who puts data on a money transfer network?

Using Most people who with etechnology because of Bitcoin, which is a payment system. storage
But other chains exist which do not focus on value. The Ethereum protocol and
the new version of the Bitcoin protocol both allow for data to be attached to

Dani Mansactions en a Playboy Playmate Exposes Too Much Shelly Palmer



Technology Reshaping the Financial Services Industry

The protocol is designed to store data. The data pa and validated the same way as the currency part. Meaning you get a time stamp and the whole transaction is immutable.

At this point you might think "OK, but what good

does it do?". Let me address that.

This Week's #Winners and #Lose Reasons to store data on a blockchain

lan Bremerery time you need to be able to prove you knew something at a certain point in time, the blockchain comes in handy.

Four things to know about the longest stock market selloff since Here a few examples:

Mohamed El-Erian in

• Intellectual property - proof of prior art

Putting touch screens

everywher Plain textricounter part to smart-contracts

death of one of our senses!

Bhaskar Bajeja Proof of state: what did my property, car, lawn-mawer look like before you

took it

No Matter Who Wins. Don't

Grab Your Bills and other documents resulting from maintenance of an object

Dustin McKissen

• Notary signature as proof of document authenticity

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	only some examples, I'm sure you can cor		- dollor	a post
·	muustry and dany work. Picase post thos	e in the commer	its.	
Jsing the block storage	chain for data  The content of the document are not vali	dated only the t	ime	
/licha Roon	and origin. The computer does not under	rstand your dat	a, it	

just stores it.

Dani Mathers: When a Playboy Playmate Exposes Too Much

## Expensive public data store



This Week's #Winners and #Losers

At current prices it costs around 500\$ to store 1MB of data on the Ethereum blockchain. That is not a cost effective way to keep you data safe.

Additionally, anything you commit to a public blockchain becomes just that: public. Most of the time, this is not what you want.

would allow to store the data at a reasonable cost and not make it available to Four things to know about the everyone. Fortunately, that is not difficult to achieve. longest stock market selloff

since 1980

## Mohame Store only the shadow of the document

Putting touch screens everywhere might trigger the quasi unique number. The process is called hashing and is a death of one of our senses! mathematical function that takes a document as its input and spits out a number as its output. For the same input it will produce the same output every time. Change a single No Matter Who Wins, Don't coma in a text or a single pixel in an image or movie and the output will be completely different.

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SHA-2 256 which stands for Secure Hashing Algorithm and

Pulse Produces a 256 bit number as its output. To give you an idea of the number as post

between o and 5.7896045e+76 or a 5 with 76 zeroes behind it.

Using the blockchastorage  Micha Roon	in for data  the chances that two similar documents will produce the  same Hash value are nil.
Dani Mathers: Whe	

Finanairy one clare the ckarting	t produces the same hash value.	
Where should I kee This Week's #Winners and #LoseThe answer to this qu		information
lan Brenwhich you would like	e to disseminate, then IPFS or a public interr	net server are
good choices.		
Four things to know about		
since If on the other hand	ff you want to keep your information private u	ntil you need to
MohamepFoduce it then it is b	oest to keep it on your local machine or in an	encrypted form
in a public place.		
Putting touch screens		
everywhere might trigger t The important thing death of one of our senses	he is that the document is not altered in any wa	ny because any
Bhaskarchange, even the tinio	est of changes, will produce a different hash	value and thus
invalidate your proof	mechanism. Try it for yourself here	
No Matter Who Wins, Don'	t	
Grab Conclusion  Dustin McKissen		
The blockchain provi	des proof of knowledge in the past. In other	words: every
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falsified.  = Pulse		
= ruise		Publish a post
In the blockchain era	nobody can claim to have had an idea before	e you. No more
discussions over the turning the blockchain for d	time a picture has been taken or a document lata	signed.
storage		
Micha Roon	If it's on the blockchain, it's the truth.	
Dani Mathers: When a Play Playmate Exposes Too Mu Shelly Palmer		

I have argued that you can inherently trust the contents of a blockchain. By

 $^7$  Danadding the hash of a document to a transaction you can therefore prove that you

Technally ounced to do is to produce the document along with the transaction and

Recruiters Often Miss

Bernard warpte that document before the transaction happened.



Notary Public, Notary, Bitcoin

### 7 Dangerous Character Flaws

### Recruiters Often Miss

Bernard Marr



Written by Micha Roon

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#### This Week's #Winners and

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Ian Bremmer



### Tuan Trinh

Co-Founder at InsurTech Consulting Partners, MIT Certified FinTech

Four things to know micha Hodinan principle, yes. In practice, block chain runs over IP and longest stock mark subject to fdelays (time stamp issues) and current security vulnerabilities of the underlying IP networks (quite a few, I reckon). Don't you agree? since 1980

Mohamed El-Erian in

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#### David Day

### Putting touch screens

everywhere might tri



Bhaskar Bateja

# Micha Roon

blockchain evangelist

No Matter Who Wins, Don Grab Your Muskets

Dustin McKissen

IP networks may not be perfect but empirical evidence shows that they work quite well for blockchain purposes. Additionally, when storing documents, time stamps are less critical as a few seconds or even minutes more or less does not make much of a difference in most cases.

It looks very difficult to attack blockchains. Most successful

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proof. Like time stamps of the other transactions in the block, to make sure the transaction is not post-dated. But you'd have to post-date the transaction by at least several weeks, which will

Using the blockchain for data noticed during the verification process.

storage

Micha Roon

Let me know if I am missing the elephant in the room but I can't think of any plausible attack.

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Playmate Exposes Too Much David Day and Scott Webb

### 7 Dangerous Character Flaws





Putting touch screen Palmer CEO at The Palmer Group everywhere might trigger the

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Bhaskar Bateja

# Dani Mathers: When a Playboy Playmate Exposes

No Mateo Much, Don't









When the apportunity presented itself, Playbox Playmate Dani Mathers decided inked in

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Angeles punishable by up to 6 months in jail. Those are the facts of the case, and Using the blockchain for data

storage

When called out by @bonniereynolds, @danimathers responded, "I was sending

it to a friend & that private conversation shouldn't have happened either. It was a Dani Mathers: When a Playboy true mistake and I'm sorry." Playmate Exposes Too Much

Her apology didn't do much to help her cause. The righteous continue to call her 7 Dangue as a cruel body shammer. The faithful, having accepted her apology, continue Recruiters Often Miss bernard to defend her and rationalize her actions. The debate rages on, and regardless of the poignancy of the missives, minds will not be changed.

Technology Reshaping the

## Finan AalTechnologically Empowered Crime

Gavin Heaton

It might be instructive to consider that this crime could not have been committed five years ago. Snapchat didn't get funded until April 2012 and its Android app #Losedidn't launch until October of that year. While it's true that camera phones have lan Bremper around since May 1999, the ability to distribute an uncensored digital image of a naked person on a global social media network is less than five years old. Four things to know about the That said, new and exponentially more sophisticated technologies are emerging at longest stock market selloff since amaccelerating pace.

Mohamed El-Erian 🗓

## Forbidden Planet

Putting touch screens in 1956, Forbidden Planet, an MGM science fiction thriller (loosely based on everywhere might trigger the death William Shakespeare's The Tempest) premiered at Grauman's Chinese Theatre in Bhaskar LA. The movie is noted for many firsts, including faster-than-light travel, an anthropomorphic robot aptly named "Robby the Robot" who could have been No Matter Who Wins Don't nominated for "Best Actor in a Supporting Role," and a fully electronic musical Grab Your Muskets

Dustin Mscore. But this motion picture is important to us because it presciently describes the plight of an ancient race whose advanced technology destroyed them in an

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Pulse As the story unfolds, we learn that our space explorers have landed Publish a post

once inhabited by the Krell, a highly advanced native race that suddenly died out 200,000 years before. At the climax of the film, we find out that a mysterious Using the blockchain for data intruder (that has been selectively killing off the explorers) is actually a storage

Micha Rtechnology that empowered the Krell to unleash "Monsters from the Id." In less

Freudian terms, the technology created invisible, powerful manifestations of

Dani individual/Krell's most personal, unspoken, evil and malicious thoughts. It was Playmate Exposes Too Much instantly lethal to the entire race.

## Dani Mathers's Id and the Tools That Empower It

Dani Mathers's id and the 1001s that Empower it
7 Dangerous Character Flaws Dani Mathers looked up and saw a woman who aesthetically offended her. She Recruiters Often Miss
Bernard had a thought a silent, personal thought. A hackneyed, pop-culture meme came
to her: "If I can't unsee this then you can't either." It was so clever! So witty. She
Technlifted/hersmantphone. It's a bit catty, but it's sooo perfect. A quick Snap. It's
Financial Services Industry She was done typing the caption before she finished thinking. Well,
mean/funny but it's OK. A quick tap. It was over in an instant. Dani Mathers's
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#Losers
Considering what we've all been through over the past 18 months, and no matter
how it turns out, one thing is certain: we now have all the tools we need to use our

Four things to know about the thoughts to destroy ourselves. longest stock market selloff

since 1980

Mohame This may have always been true for a small subset of people, but there has never been a time where upwards of 3.5 billion people had this power simultaneously. Putting touch screens media friends have you recently unfollowed because of their everywhere might trigger the death political position or a statement of values you did not share? It scares me, and it Bhaskar should scare you too.

No Matter may not even need new technologies to unleash our "Monsters from the Id." Empowered by our existing networks, it may only take the promiscuous distribution of our innermost thoughts for us to face the Krell's fate. To ensure

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correctness" and "no thought going unuttered."			
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America's founding fathers gave us the gift of a republic where the majority rules but the minority is always heard. As we enter the age of technologically enabled Using the blockchain for data proportionally amplify opposing points of view, we Micha Beshould respect their wisdom, or we may find ourselves living on a forbidden

planet	
pianet.	

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