

Blockchain-based verification secured a state's *pandemic event records*.

A US state government · Data protection · Cybersecurity & AI security · Data engineering & platforms

01 THE SITUATION

Business Problem

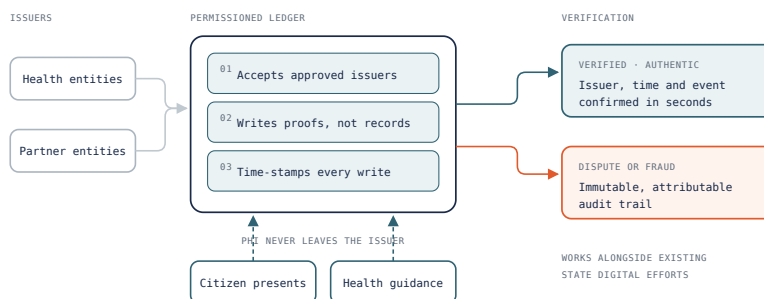
During vaccination rollout, The state needed a way to prove COVID-related events were real and issued by trusted health sources, because paper cards were easy to lose or fake. The state required a secure, tamper-evident mechanism that preserved privacy while still letting businesses and agencies verify authenticity quickly.

02 THE CHALLENGE

We had to design something that state and health entities could write to, that citizens could present, and that verifiers could trust—all without exposing PHI or creating a data-sharing burden hospitals couldn't sustain. It also had to be resilient to changing public-health guidance and work alongside existing state digital efforts, not replace them.

03 THE SOLUTION

We built a COVID-era blockchain solution that recorded and validated vaccination/test events from approved sources and exposed a lightweight way for authorized parties to verify authenticity, time, and issuer—without revealing more than was necessary.



IMPACT

98%

Of recorded events were successfully validated on first attempt.

42%

Reduction in suspected or manual "is this real?" checks at verification points.

<5 s

Seconds average verification time for authorized parties.

CLIENT BACKGROUND

A US state government was serving almost 9 million residents during the height of the pandemic and, like every hard-hit state, had to move fast on testing, vaccination, and proof-of-vaccination workflows while fraud risks were growing. At the same time, the state was already pushing digital, public-sector innovation, so a secure, tamper-evident way to share COVID-related status and records fit the state's modernization trajectory.

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KEY COMPONENTS OF THE SOLUTION INCLUDED

01

Permissioned ledger for COVID events

Only approved state health or partner entities could write attestations (e.g., vaccine administered, test completed), giving the chain a known set of trusted issuers.

02

Minimal, privacy-aware payloads

We wrote proofs and metadata—not raw medical records—to the chain, so verifiers could trust the event without seeing protected details.

03

Audit and transparency

Every write was time-stamped and attributable, giving the state an immutable audit trail if proof fraud or disputes arose.

WHERE IT LEADS

THE PRACTICE

Cybersecurity & AI security

Where this engagement was delivered, and where the work continues at scale.

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START HERE

Cyber Risk Sprint

The fixed-scope, fixed-fee engagement that starts work like this — scoped with you before you commit.

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