

A FILE-TIMESTAMPING PLATFORM

Prove it existed.

Photon takes a one-way fingerprint of any file and anchors it to the Bitcoin blockchain, giving you independent, permanent proof that it existed in exactly that form, at exactly that moment.



THE PROBLEM

Proving *when* something existed is surprisingly hard.

File timestamps can be edited. LMS records get switched off. Cloud metadata is held by the platform you may end up arguing with.

WHY NOW

Generative AI made it everyone's problem.

Plausible coursework, code, essays, art and audio can now be produced in seconds. The question *who made this, and when?* has gone from a rare edge case to a daily one, and not just in classrooms.

01 Educators

want defensible evidence that a draft existed before AI could have written it.

02 Researchers

need priority protection before circulating a draft to a wider lab.

03 Creative professionals

want proof their work pre-dates a model that scraped it.

04 Auditors and engineers

need to show, years later, that a record was in force on a date.

05 Whistleblowers

need to anchor a document's authenticity without revealing it yet.

PHOTON, IN ONE SENTENCE

Give us any file. We anchor a **one-way fingerprint** of it to **Bitcoin**, and hand you a proof that outlives us.

- × No cryptocurrency required
- × Your file never leaves your storage
- × The fingerprint can't be reversed
- × Verifiable without us

WHO PHOTON IS FOR

Four people, one tool.

The four scenarios from the whitepaper, updated for the post-AI world. Each tells a different story about why a portable, independent proof matters.

Jane

LECTURER

Suspects some submitted essays are AI-generated. Asks every student to stamp weekly drafts via Photon, embedded in her Moodle course.

“I can prove this draft existed two weeks ago.”

Bill

RESEARCHER

Stamps his grant proposal before circulating it to collaborators, so if a competing lab publishes first, the timeline is independent.

“Anchored to a Bitcoin block before they even saw it.”

James

IT MANAGER · TAFE

Stands up a Photon org, configures Moodle LTI, and offers stamping to staff and students through existing single sign-on, same afternoon.

“Live by the end of the day, no new logins.”

Chloe

FINAL-YEAR STUDENT

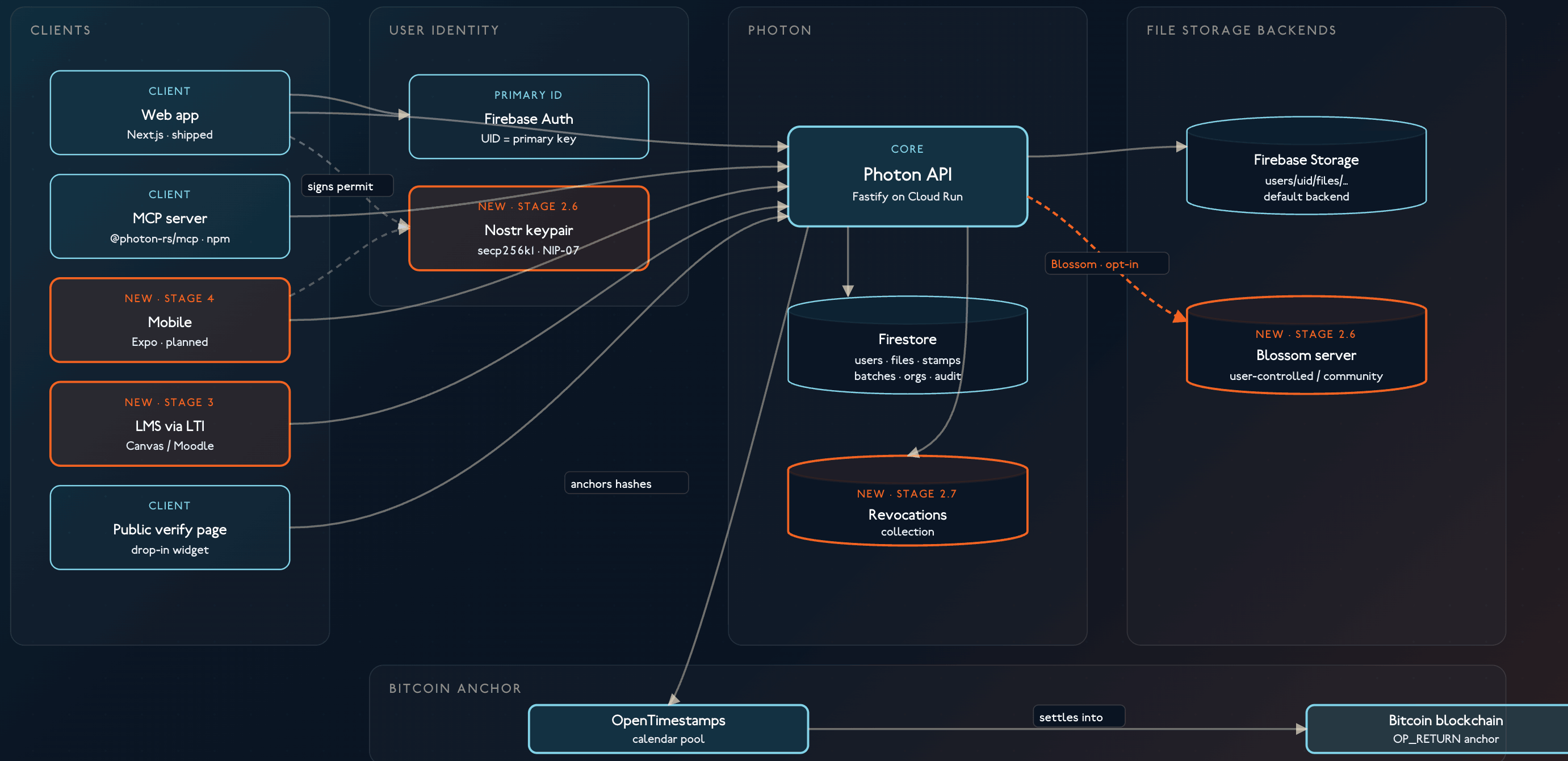
Stamps every assignment, lab report and project commit as she finishes them, building a portable portfolio she controls. When she applies for a WIL placement at her dream lab, the timeline of her work is independently provable.

“My portfolio. My timeline. Not the university’s.”

HOW IT WORKS

From file to Bitcoin block.

One API in the middle. Multiple clients on the left, multiple storage options on the right, a single anchor at the bottom: Bitcoin, via OpenTimestamps.



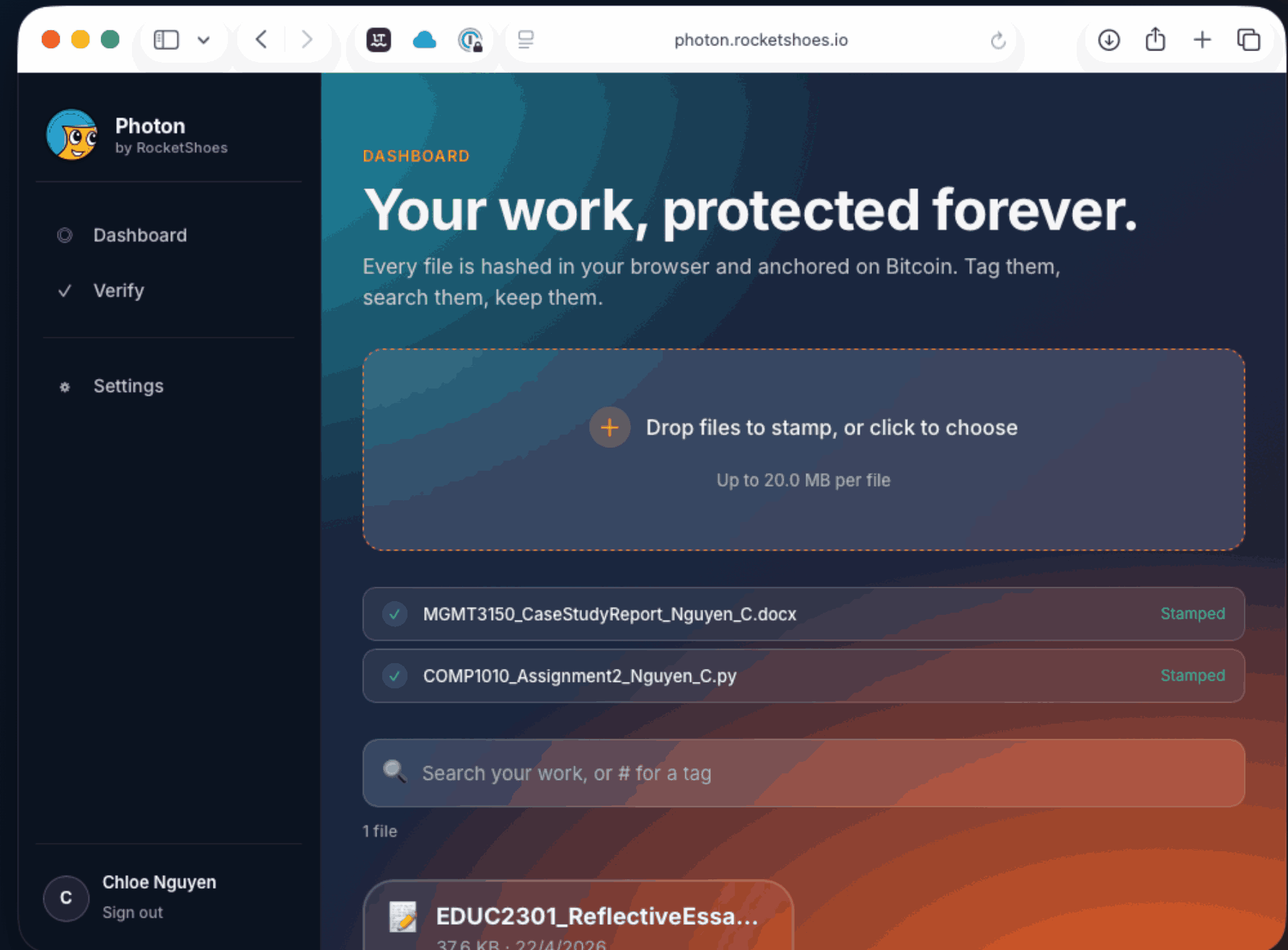
□ Current - shipped today □ New - upcoming stage - - - Conditional / opt-in path

THE PRODUCT

Drop a file. Get a proof.

The whole interaction lives behind one screen. Sign in, drop a file, and Photon does the rest in the background.

- 01 Hash in your browser**
The file's SHA-256 is computed locally before upload.
- 02 Stamped automatically**
The hash joins the next OpenTimestamps batch, no wallet, no fees.
- 03 Confirmed on Bitcoin**
Within ~1 hour the proof upgrades to a confirmed Bitcoin anchor.



Boring, conservative, durable standards.

₿

Bitcoin

THE ANCHOR

The most-validated, longest-running public ledger in existence. A block from 2026 will still be a block in 2046.

OTS

OpenTimestamps

THE PROOF FORMAT

Open standard by Peter Todd. Aggregates millions of file hashes into a single Bitcoin transaction. Free to use at scale.

LTI

LTI 1.3

THE LMS BRIDGE

IEdTech standard supported by Moodle, Canvas, D2L, and Blackboard. Drop a Photon activity into any compliant course.

MCP

MCP

THE AI SURFACE

Model Context Protocol. AI assistants like Claude and ChatGPT can stamp and verify on behalf of their users, first-class.

Where we are, where we're going.

Tracked in detail in [docs/PROJECT.md](#). Most of the foundational work is shipped; the next year is integration.

SHIPPED

7

1.0 Core stamping & verify

1.1 MCP server (npm)

1.2 Admin console

1.3 Custom domain

1.4 Hourly upgrade job

1.5 Batches search

3.1 @photon-rs/mcp v0.1.0

IN PROGRESS

2

1.6 Multi-factor auth

2.0 Organisations & tenants

DESIGNED

7

1.7 E2E encryption (opt-in)

1.8 QR + public verify page

1.9 Apple & Google Wallet

2.5 Identity attribution

2.6 Nostr + Blossom storage

3.0 LTI 1.3 (Moodle, Canvas)

4.0 Native iOS & Android

RESEARCH

2

5.0 Federated discovery & portfolio export

5.1 AI provenance assistant for educators

WHY US

We've done this before.



Matt Riddle

FOUNDER · ROCKETSHOES

Three decades leading educational-technology innovation, transformation and strategy in higher education. Founded RocketShoes in 2018; has been responsible for the design and direction of Photon since inception.

1993	,	2005	University of Melbourne
2005	,	2008	University of Cambridge
2008	,	2018	La Trobe University · Director of Educational Innovation
2019	,	2023	Curio Group · Director of Learning Experiences
2025	,	Now	CQUniversity · Deputy Director, Learning Design Futures

2018

RocketShoes Prototype

The first whitepaper proposed a decentralised content platform on NEM and IPFS. We built a working prototype.

NEM blockchain

IPFS storage

Google Classroom



2026

Photon by RocketShoes

Smaller scope, durable standards, private storage, no cryptocurrency for the user. The same idea, finally in a form that ships.

Bitcoin via OpenTimestamps

Private cloud storage

LTI 1.3 + MCP

TRY IT

Stamp anything.
Verify forever.



photon.rocketshoes.io

FREE TO START · NO CRYPTOCURRENCY REQUIRED