

Open Data Hack Powered by Filecoin



Join the **Open Data Hack Powered by Filecoin** and showcase your skills! This **three-week** online event provides opportunities for developers to improve their skills and work on projects in the Filecoin ecosystem. Technical workshops and mentoring sessions are available for all levels of experience. Complete challenges and compete for prizes!

!! TL;DR

- Register for the hackathon.
- Read the official announcement from Encode Club.
- Join the Encode Discord to get updates related to this hackathon.
- Sign up for the hackathon events!
- Pick a bounty and start building!
- Schedule a 1-1 with the Encode team and get feedback.
- Submit your project by 11:59 pm in your time zone on Wednesday, 27th September.

Key Dates

[E0272] 23Q3 Filecoin Hackathon Aug Timeline

Aa Title	Date	■ Recording link
<u>Launch</u> <u>Event</u>	@August 30, 2023	Hackathon Introduction: https://youtu.be/iYcPLyD3JLQ Filecoin Virtual Machine: What it can do now & plan for the future: https://youtu.be/iYcPLyD3JLQ Filecoin Virtual Machine: What it can do now & plan for the future: https://youtu.be/ 3balUoAJHE Panel: Filecoin Data Ecosystem: the A to Z of decentralized storage: https://youtu.be/H-k-5QxGl5s How to Win Bounties?: https://youtu.be/ZZQCQBqR1py
Submission Deadline	@September 27, 2023	
Finale and Prizegiving	@October 12, 2023	



[E0272] 23Q3 Filecoin Hackathon Aug Workshops

Aa Title	∷ Sponsor	Date	₽ Speaker	■ Recording	■ Additional information
RaaS deep dive	FVM	@August 31, 2023 1:30 PM (GMT+1)	Xiangan He	https://youtu.be/mimz6rlu7G4	Let's dive dee into the dApp interface examples that builds on the t interface for RaaS(replicati review and rej for builders whare interested build RaaS services for storage applications.
Filecoin Basics & Storage Helpers	NFT.Storage	@August 31, 2023 2:00 PM (GMT+1)	Jenks Guo	https://youtu.be/x5jFHF4ah24	Learn the fundamental concepts of th Filecoin netwo that will help y get ready to le more advance technology like FVM and IPC. We'll also cove how to easily store data usir Storage Helpe Web3.storage for any dapp!
Building a DataDAO with programmatic and verifiable storage	FVM	@August 31, 2023 2:30 PM (GMT+1)	Zak Ayesh	https://youtu.be/CE7O-0FevqU	In this workshi we will demo t integration of DataDao start kit and <u>lighthouse.sto</u> to showcase ti usage of aggregator, PoDSI, and of retrievability through smart contract for client's datase

Aa Title	∷ Sponsor	Date	₽ Speaker	■ Recording	
Using IPC for Launching subnets for Filecoin MainNet	IPC (ConsensusLabs)	@August 31, 2023 3:00 PM (GMT+1)	Mikhail Turilin	https://youtu.be/tz6syhMvffE	IPC is a new framework for blockchain scaling. IPC allows develop to create hierarchical tre of blockchains (L2, L3, L4+) t add processin power, increase throughput, ar reduce block latency. IPC subnets are E compatible an allow develop quickly deploy code using a familiar toolch. This workshop demonstrate: How to use existing IPC subnets to dep EVM code 2. It to spin off a ne subnet in a few minutes
Programmable Storage with Lighthouse	Lighthouse	@September 1, 2023 5:00 PM (GMT+1)	Nandit Mehra	https://youtu.be/g7bwTlEp_88	
Using Lilypad for Decentralised AI & ML	Lilypad	@September 5, 2023 2:00 PM (GMT+1)	Alison Haire	https://youtu.be/fJGTUg39n-0	Lilypad aims to develop a trustless, distributed compute netw that enables internet-scale data processir #AI, #ML & otl arbitrary computation fr blockchains, v unleashing idloprocessing po & unlocking a marketplace fr compute. This hands on workshop will show you how get started wit the Lilypad v1 testnet for AI inference & M tasks!

Aa Title	∷ Sponsor	■ Date	₽ Speaker	■ Recording	■ Additional information
DataverseOS: Internet Operating System for Sovereign Data dApps	DataverseOS	@September 5, 2023 2:30 PM (GMT+1)	Yash Jagtap	https://youtu.be/Duh4ANsNN_o	
Building with Public Datasets on Tableland's Web3 SQL Database	Tableland	@September 5, 2023 3:00 PM (GMT+1)	Dan Buchholz	https://youtu.be/fOY8gc3uFP4	
Universal Connectivity and libp2p Browser Tricks	Libp2p	@September 5, 2023 3:30 PM (GMT+1)	Prithvi Shah	https://youtu.be/ziPDxevbRno	Learn how to I peer-to-peer applications us the new unive transport layer the LibP2P protocol, along with LibP2P basics.
Advancing Data Retrievability	FVM	@September 5, 2023 4:00 PM (GMT+1)	Longfei Wang	https://youtu.be/Av8NR2PXZQ0	What's the cur status of retrievability o Filecoin? How guarantee the reliable retriev for Clients? Cawe build a retrieval projet with FVM? In 1 session, let's of deep into how build an produ (e.g. retrie.org incentive SPs provide reliabl retrieval for clients' data.
Building Cross-Chain Dynamic NFT with Chainlink	Chainlink	@September 5, 2023 4:30 PM (GMT+1)	Andrej Rakić	https://youtu.be/p60454VUcTA	
IPFS in the Browser: Headstart with Helia	IPFS Helia	@September 6, 2023 5:00 PM (GMT+1)	Russell Dempsey, Ryan Baumann	https://youtu.be/ky7QGlAajm8	Come discove the many examples we have available building project with Helia to g head start on y project. A core Helia maintain will be availab answer questi and provide guidance

Aa Title	∷ Sponsor	■ Date	₽ Speaker	■ Recording	■ Additional information
Accelerating IPFS data with Saturn	Saturn	@September 6, 2023 5:30 PM (GMT+1)	Patrick Woodhead	https://youtu.be/8WpXg16Vk	
Replication NFT Certificate with Full Piece CID	FVM	@September 6, 2023 6:00 PM (GMT+1)	Matt Hamilton	https://youtu.be/EK-CCT_adf4	Filecoin allows you to store multiple replication of data with different storal providers to increase redundancy. E how can you prove how ma copies of the complex of the c
Audio/Video dApps for DataDAO	Huddle01	@September 7, 2023 5:00 PM (GMT+2)	Vraj Desai	https://youtu.be/AtSLpDn-yZg	
Visual Scripting for Mona	Mona	@September 7, 2023 5:00 PM (GMT+1)	Tom Moore	https://youtu.be/I3LNX5TGW5U	

m Bounties



You can answer more than one bounty. Your project will be judged separately for each bounty.

You $\underline{\text{\bf MUST}}$ implement one or more of the listed features into your submitted application.

You must submit by 11:59 pm in your time zone on Wednesday, 27th September.

[E0272] 23Q3 Filecoin Hackathon Aug Bounties

Aa Bounty	∷ Sponsor	■ Additional information	Prize	
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Aa Bounty	i≡ Sponsor	■ Additional information	Prize	
FVM Bounty	FVM	Data DAOs or Collectives: Best solution to enable DAOs or collectives to form around the creation, curation, monetization and preservation of collectively created datasets that they (and the world) care about, such as video, social network or scientific archives. Data Derivatives: Best product to elevate or harvest the value of public open datasets stored on Filecoin via slingshot, moon-landing, etc. Using FVM to guard the retrieval, usage and profit generated by those open datasets on Filecoin. Add & retrieve data via FVM: Best solutions/products to supercharge data onboarding and retrieval highways onto FVM. Including UI for data upload, replication, repair and renewal workers, and perpetual storage solutions, as well as incentive design to guarantee reliable retrievability to the clients' data (such as retriev). Wild Card: Some ideas don't fit any categories! The Wild Card prize is for out-of-the-box ideas built on FVM that contribute to building the new Open Data Economy using Filecoin. Reputation Service: Best product that leverages the SP reputation database provided by SP Reputation WG to solve real-world problems. Consume raw reputation data from the database, define heuristics to utilize the data for your product, and encourage SPs to capitalize on their reputation and performance.	3x Grand Prize: \$3,500 Up to 10x Pool Prize: \$5,500 (Capped at \$1000 per team)	
<u>Lighthouse</u> <u>Bounty</u>	Lighthouse	Best use of Lighthouse with FVM 1 x \$1000 Best use of Lighthouse Access Control Features 2x \$500	1x \$1000 2x \$500	
<u>Lilypad</u> <u>Bounty</u>	Lilypad	© Compute over Data: Best solutions to facilitate decentralized compute and/or AI and ML jobs. Build new solutions for DeSci, DAI, etc. or DApps that take advantage of the Lilypad decentralised compute network → docs.lilypadtech.org	1x Grand Prize: \$2,500 1x Runner up Prize: \$1,500 2x Honorable Mention: \$500	
<u>Saturn</u> <u>Bounty</u>	Saturn	Retrieval via distributed CDN: Best apps or web services that use Saturn L1 nodes for data retrieval and verification.	2x Grand Prize: \$1750	
Consensus Labs Bounty	IPC (ConsensusLabs)	Filecoin's Fastest: Best application leveraging the improved finality and throughput properties of FVM on IPC subnets. Subnet Tools: Best tools to simplify IPC subnet management, improve data visibility, and provide analytics. Wallets: Best client app or wallet to help users navigate the multi-subnet world of IPC.	1x Grand Prize: \$1500	
NFT.Storage Bounty	NFT.Storage	Storage Wizard: Best project storing Data on Filecoin using storage on ramps such as Web3.storage, NFT.storage or Estuary.tech.	4x Prizes : \$500	
<u>Libp2p</u> <u>Bounty</u>	Libp2p	P2P Apps & Services: Best use of LibP2P in the networking layer to build peer to peer web/mobile services or applications making use of essential qualities such as interoperability, NAT traversal, universal connectivity, security, robustness & more!	2x Prizes: \$500	
<u>IPFS, Helia</u> <u>Bounty</u>	IPFS Helia	□PFS: Best app, library, or plugin which supports the IPFS ecosystem. Note: Our judges are focused on reviewing projects implementing/improving/using Helia but will also review other exceptionally creative uses. Some examples of projects we would love to see include: - An application that leverages Helia directly to solve users' needs A plugin that enhances the capabilities of Helia inside applications A library that makes it easier for users or devs to meet needs with Helia.	1x Grand Prize: \$1000	
<u>Chainlink</u> <u>Bounty</u>	Chainlink	2 best projects building with Chainlink CCIP - \$500 each 2 best projects building with any other Chainlink service - \$500 each	4x Prizes : \$500	
<u>DataverseOS</u> <u>Bounty</u>	DataverseOS	Internet Operating System for sovereign data dApps: Best use of DataverseOS to build sovereign data applications over its DApp Store, making use of essential functions such as sign-in-with-dataverse, web-native file system, access control, graph database & more! Check Dataverse Hackathon Guidelines for more examples.		

Aa Bounty	∷ Sponsor	■ Additional information	Prize
Tableland Bounty	Tableland	Best integration with Tableland: Best usage of Tableland. Prize focus is on a dataset/index with write access permissions to allow external collaborators to add to the index or similar; bonus for also using compute-over-data.	Main Prize: \$1000 Runner up: \$500 Pool Prize: \$1000
Mona Bounty	Mona	Best website or web app that uses Mona spaces and avatars in an interesting way e.g. A website where each click leads to a different Mona space - e.g. A website that simplifies scheduling events in a Mona space 2. Best interactive components built using visual scripting inside of the Mona Check out Mona's General Docs here: https://docs.monaverse.com Check out Mona's Visual Scripting Docs here: https://docs.monaverse.com/create/building-spaces/adding-interactivity/visual-scripting	2 x \$1.5k for #1 4 x \$500 for #2
Huddle01 Bounty	Huddle01	Build a decentralized audio/video data project. Here are some project examples provided by Huddle01: - Audio/video solution for DataDAO - Building Data Oracles Using Meeting Data to Be Used for Later Incentives. Keep in mind that these are just some examples and other ideas will be accepted too.	3x Prizes: \$250

Developer Resources

[E0272] Dev/Sponsor Resources 23Q3 Filecoin Hackathon Aug Sponsors

Aa Sponsor	@ Image		@ Twitter	▶ Dev Resources	
Filecoin Virtual Machine (FVM)	€ titiliana	https://fvm.filecoin.io/	https://twitter.com/fvmdev	- <u>Learning Resources</u> - <u>Discord</u> - <u>Docs</u> - <u>Everything about FVM</u>	
IPC (ConsensusLabs)	warre	https://consensuslab.world/	https://twitter.com/ConsensusLab	- <u>Learning Resources</u> - <u>Team and</u> <u>Outputs</u> - <u>Slack</u> - <u>Weekly update</u> - <u>Consensus Labs Discussion</u>	
<u>Lilypad</u>	_	https://docs.lilypadnetwork.org/	https://twitter.com/Lilypad_Tech? s=20	- <u>Learning Resources - Github</u> - <u>Litepaper</u> - <u>Blog</u> - <u>Slack</u>	
NFT.Storage	eri dil ez	https://nft.storage/	https://twitter.com/nftdotstorage	- <u>Learning Resources</u> - <u>Github</u> - <u>Docs</u> - <u>Blog</u> - <u>IPFS Gateways</u>	
IPFS, Helia	Helio	https://ipfs.tech/	https://twitter.com/ipfs	- <u>Learning Resources</u> - <u>Docs</u> - <u>Github</u>	
Saturn	•	https://saturn.tech/	https://twitter.com/FilecoinSaturn	- <u>Learning Resources</u> - <u>Github</u> - <u>Docs</u> - <u>Slack</u> - <u>Set up a node</u>	
<u>Libp2p</u>	(S) LINES	https://libp2p.io/	https://twitter.com/libp2p	- <u>Learning Resources</u> - <u>Docs</u> - <u>Blog</u> - <u>Matrix Chat</u> - <u>Github</u> - <u>Discussion forum</u>	
<u>Tableland</u>	0	https://tableland.xyz/	https://twitter.com/tableland	- <u>Docs</u> - <u>Github</u> - <u>Blog</u> - <u>Tech</u> <u>Blog</u>	
<u>Chainlink</u>	o	https://chain.link/	https://twitter.com/chainlink	- <u>Docs</u> - <u>Developer Resources</u> - <u>Blog</u> - <u>Case Studies</u> - <u>Whitepaper</u> - <u>Education Hub</u> - <u>Tech Talks</u>	
<u>DataverseOS</u>	(i) Salamentii	https://dataverse-os.com/	https://twitter.com/DataverseOS	- <u>Docs</u> - <u>SDK</u> - <u>Workshops</u> - <u>Discord</u> - <u>Github</u> - <u>Buidlbox</u>	
<u>Lighthouse</u>	S LISATHOUSE	https://www.lighthouse.storage/	https://twitter.com/LighthouseWeb3	- <u>Docs</u> - <u>Blog</u> - <u>Talk to Lighthouse</u> <u>Expert</u> - <u>Discord</u> - <u>Github</u>	

Aa Sponsor	@ Image		@ Twitter	▶ Dev Resources	■ Description
<u>Mona</u>	MONA	https://monaverse.com/	https://twitter.com/monaverse	- <u>General Docs</u> - <u>Virtual Scripting</u> <u>Docs</u> - <u>Blog</u> - <u>Discord</u> - <u>Marketplace</u> - <u>Video Tutorials</u>	
Huddle01	HERRICE (II)4	https://www.huddle01.com/	https://twitter.com/huddle01com	- <u>Docs</u> - <u>Blog</u> - <u>App — Host an</u> <u>event!</u> - <u>Discord Community</u>	





Open frequently asked questions by clicking '▶' next to questions.

▼ Now can I register for the hackathon?

There are several different scenarios when you're registering for the **Open Data Hack Powered by Filecoin x Encode Club**, depending on whether you're registering with or without a team. Choose which option describes your situation:

- Solo Hacker with no team
- Solo Hacker looking for a team
- Hacker with a team
- Hacker with a team, looking for more members

After you register, make sure to join the **Encode Discord** It's our main communication channel and a great way to **network** and **share resources** with fellow hackers!

If you haven't already, register for the hackathon now!

- ▼ Solution
 Ean I participate in the hackathon solo?
 - · Yes. You can work as a solo hacker or in a team.
 - If you are looking for a teammate, check the question below.
- ▼ I am looking for teammates. Where can I find them?
 - Please join Encode's <u>Discord</u> server, where everything in the hackathon happens. There are channels for finding teammates.
 - You can also contact Klara (klaraselen#2100) via Discord, our Programme Manager! We will put you in touch with people.
- **▼** What kind of support do I get?
 - **Discord Tech Support:** Please join Encode's **Discord** server, where everything in the hackathon happens. There are channels for technical questions.
 - 1-1 support calls with Encode team: Klara will organise 1-1s every few weeks to discuss your project and progress and offer help.
 - Office hours: Office hours will take place in the Discord voice lounge.
- **▼** How many hours should I work on projects?
 - Minimally, all you'll need to do is submit something by Wednesday, 20th September 2023.
 - You are not expected to work for 4 weeks or start immediately. We give you lots of flexibility so you can find time on evenings and weekends to learn, build at your own pace, and develop your idea.
- **▼** □ How and what should I submit?

You will need to submit:

1. Codebase

- · GitHub repository of the full codebase
 - Please keep the repo public for judges to review
- · Readme describing the project in detail (this is essential to evaluating your project)
 - Summary, overview, images of the demo, etc.

2. Video demonstration (max 3 min)

A short video to demonstrate the full functionality of your project

3. Presentation (Optional)

- · Pitch deck
 - Introduce your team, why you built (motivation/problem), what you built (solution), demonstration video, and future roadmap of the project
 - o This could be used later if selected as a finalist. You can update the deck before the demo day.
- 4. Live website of the project for the public to test/demo(Optional)
- 5. Technical Paper(Optional)
- The best projects will be selected to pitch in the demo day to an audience of hackers, investors, and Internet Computer ecosystem members for a chance to win top prizes.
- 🎇 All prizewinners will be announced at the demo day, so make sure you don't miss it even if you aren't a finalist!
- The submission deadline is Wednesday, 27th September 2023 followed by a judging period.

▼ 👸 I submitted my projects. What's next?

- The best projects from each category will receive a prize from a generous hackathon prize pool.
- The best 10 projects overall will also be invited to pitch at the Finale and Prizegiving for a chance to win one of the top prizes.
- If you are chosen as finalists, you will be invited to the pitch practice sessions.
- ▼ I won a bounty. What now?
 - Congratulations!
 - If you've won a hackathon prize, we will be in touch to collect your **wallet address and/or any additional details** needed for prize payouts.
 - Once we have collected this information, we will pass it on to our sponsors and they will proceed with the prize payout.



Please note that this process **may take a few weeks** depending on the sponsor, type of prize, and applicable legal regulations, so we kindly ask for your patience during this process!

Project Submission

If you want to open the form in another tab, click here.

https://encodeclub.typeform.com/opendatasubmit



[E0272] Dev/Sponsor Resources 23Q3 Filecoin Hackathon Aug Sponsors

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Filecoin Virtual Machine (FVM)	€ tear	https://fvm.filecoin.io/	https://twitter.com/fvmdev	- <u>Learning Resources</u> - <u>Discord</u> - <u>Docs</u> - <u>Everything about FVM</u>	
<u>Lilypad</u>	-	https://docs.lilypadnetwork.org/	https://twitter.com/Lilypad_Tech? s=20	- <u>Learning Resources - Github</u> - <u>Litepaper</u> - <u>Blog</u> - <u>Slack</u>	
IPC (ConsensusLabs)	atom)	https://consensuslab.world/	https://twitter.com/ConsensusLab	- <u>Learning Resources</u> - <u>Team and</u> <u>Outputs</u> - <u>Slack</u> - <u>Weekly update</u> - <u>Consensus Labs Discussion</u>	
<u>Saturn</u>	•	https://saturn.tech/	https://twitter.com/FilecoinSaturn	- <u>Learning Resources</u> - <u>Github</u> - <u>Docs</u> - <u>Slack</u> - <u>Set up a node</u>	
<u>IPFS, Helia</u>	Melia	https://ipfs.tech/	https://twitter.com/ipfs	- <u>Learning Resources</u> - <u>Docs</u> - <u>Github</u>	
NFT.Storage	en Mag	https://nft.storage/	https://twitter.com/nftdotstorage	- <u>Learning Resources</u> - <u>Github</u> - <u>Docs</u> - <u>Blog</u> - <u>IPFS Gateways</u>	
<u>Libp2p</u>	⊚ URPPP	https://libp2p.io/	https://twitter.com/libp2p	- <u>Learning Resources</u> - <u>Docs</u> - <u>Blog</u> - <u>Matrix Chat</u> - <u>Github</u> - <u>Discussion forum</u>	
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<u>Chainlink</u>	o	https://chain.link/	https://twitter.com/chainlink	- <u>Docs</u> - <u>Developer Resources</u> - <u>Blog</u> - <u>Case Studies</u> - <u>Whitepaper</u> - <u>Education Hub</u> - <u>Tech Talks</u>	
<u>DataverseOS</u>	(i) Datawoolds	https://dataverse-os.com/	https://twitter.com/DataverseOS	- <u>Docs</u> - <u>SDK</u> - <u>Workshops</u> - <u>Discord</u> - <u>Github</u> - <u>Buidlbox</u>	
<u>Lighthouse</u>	LIGHTHOUSE LIGHTHOUSE	https://www.lighthouse.storage/	https://twitter.com/LighthouseWeb3	- <u>Docs</u> - <u>Blog</u> - <u>Talk to Lighthouse</u> <u>Expert</u> - <u>Discord</u> - <u>Github</u>	
<u>Mona</u>	MONA	https://monaverse.com/	https://twitter.com/monaverse	- <u>General Docs</u> - <u>Virtual Scripting</u> <u>Docs</u> - <u>Blog</u> - <u>Discord</u> - <u>Marketplace</u> - <u>Video Tutorials</u>	
Huddle01	HTGGT E (G) 4	https://www.huddle01.com/	https://twitter.com/huddle01com	- <u>Docs</u> - <u>Blog</u> - <u>App — Host an</u> <u>event!</u> - <u>Discord Community</u>	

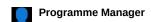


[E0272] 23Q3 Filecoin Hackathon Aug Mentors

Aa Name	:≡ Team	@ Twitter
Jenks Guo	NFT.Storage	@JenksGuo
Longfei Wang	FVM	@longfei_w

Aa Name		:≡ Team	@ Twitter
Robert Dowling		FVM	@robertalphagora
Matt Hamilton	•	FVM	@HammerToe
Sarah Thiam	a	FVM	@truckerfling
Zak Ayesh		FVM	@ZakAyesh
Mikhail Turilin	•	Consensus Labs	@mturilin
Ally Haire	®	Lilypad	@DeveloperAlly
<u>Prithvi Shahi</u>	•	Libp2p	
<u>Xiangan Xe</u>	•	FVM	
Patrick Woodhead	(P)	Saturn	@patrickwoodhead
Russell Dempsey	0	IPFS Helia	@SgtPooki
Discordian	•	IPFS Helia	@TRDiscordian







Name: Klara

Twitter: @selen_klara

Discord: klaraselen#2100

Email: klara.selen@encode.club

Calendly: book a 1:1 here

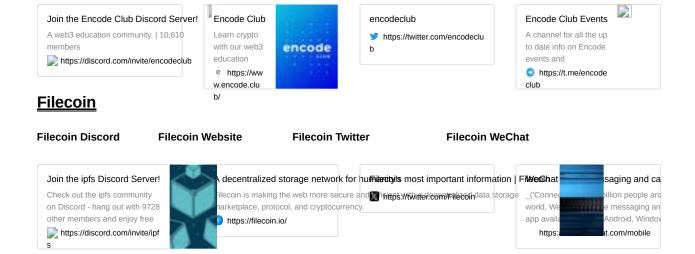
Hello everyone! I will be your Programme Manager for the next few weeks. I'm your first point of contact at Encode and will be with you on this journey from

start to finish!



Encode Club

Encode Discord Encode Website Encode Twitter Encode Telegram



Any issues or queries?

Click **here** for more support and guidance from our team.

Help us improve!

Any feedback or tips for improvement - let us know by filling out our form!