



HYPERLEDGER
FOUNDATION

Mentorship Program

Onboarding + Orientation June 2023

Welcome - 2023 Mentors and Mentees



HYPERLEDGER
FOUNDATION
Mentorship Program

2023



Investing in and
training the next
generation of open
source blockchain
contributors



Turn on camera,
rename by adding
mentor or mentee,
city, country where
you're currently
living



Agenda

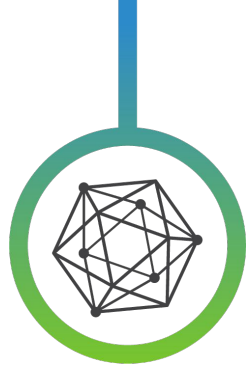
- Welcome and Foundation Overview
- Mentorship Program Overview
- 2023 Mentor/Mentee Cohort
- Participation in Open Source (culture, tools, general contribution steps)
- Mentoring and Learning Expectations
- Raising Profile and Visibility
- Additional Mentoring Resources
- Key Program Dates and Logistics





HYPERLEDGER
FOUNDATION

Foundation & Projects Overview



Hyperledger Foundation

A global, cross-industry consortium of communities collaborating and advancing business blockchain technologies.



What is Hyperledger Foundation? What Makes it Unique?

An **Open Source** not-for-profit accelerating the development and adoption of **business blockchain technologies**. Businesses with the most stringent blockchain requirements **trust Hyperledger** because:



Hosted by **The Linux Foundation**, the experts at accelerating open technology development and commercial adoption



Neutral and **collaborative**, Hyperledger will always:

- be open to all who wish to participate
- produce open source technologies
- remain immune to the commercial interests of any single company



Industry-standard blockchains **by business for business**

Hyperledger blockchain technologies emphasize key enterprise requirements:

- Support for differing levels of access
- Sub-universal validation
- Cross-chain transactions
- Modularity



Hyperledger Foundation Background



Blockchain Software, Not Blockchains

- We provide a community for blockchain software and tools
- We **do not** run blockchains as part of the Hyperledger but Blockchains are run through separate entities or foundations



A Global Team of Developers

- Our community builds code in the open
- We aim to be as diverse as possible in many respects—all are welcome!
- Anyone can join and contribute, and even assume a leadership role!



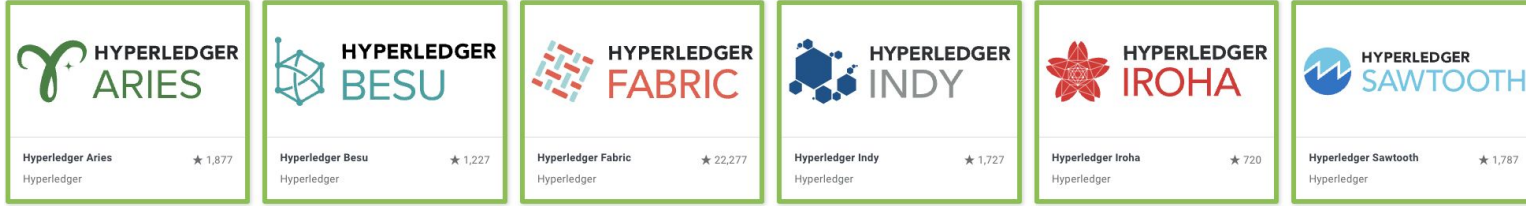
Principles from The Linux Foundation

- We are always as transparent as possible
- Meetings, email lists, and other communities are almost always open
- No “pay to play.” Membership gets you community and marketing benefits, but anyone can contribute or use the software

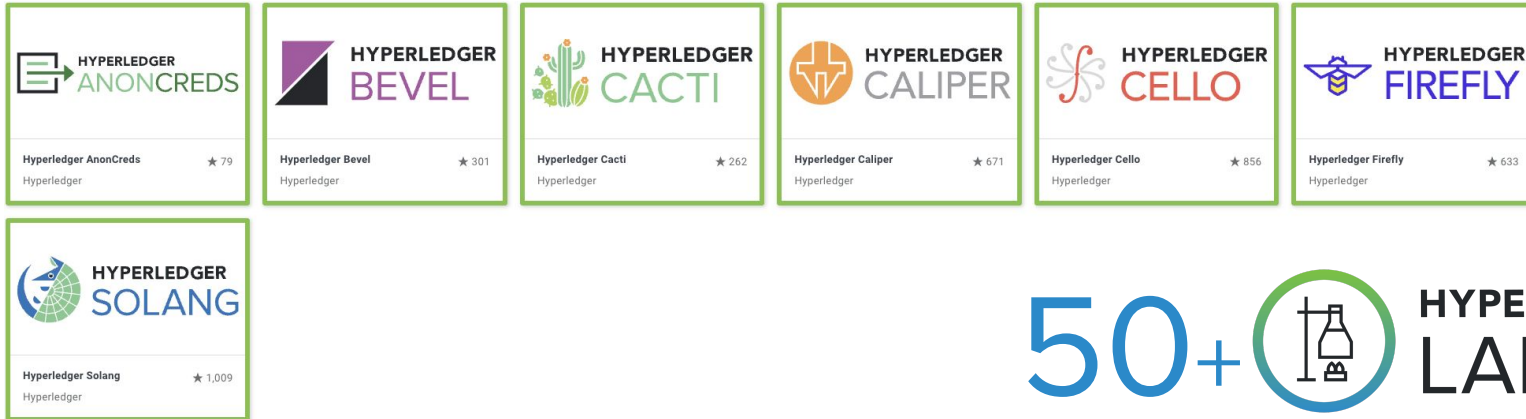


Hyperledger Projects

Graduated Hyperledger Projects (6)



Incubating Hyperledger Projects (7)



50+  HYPERLEDGER LABS

accenture

DTCC
Securing Today. Shaping Tomorrow.™

FUJITSU

HITACHI
Inspire the Next

IBM

JPMORGAN CHASE & CO.



40.06K
Contributors



LFX Data *All-Time Stats as of August 2022

1.27M
Contributions



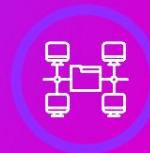
LFX Data *All-Time Stats as of August 2022

485.26K
Commits



LFX Data *All-Time Stats as of August 2022

321
Repositories



LFX Data *All-Time Stats as of August 2022

VISA vitalhub Walmart eBay Trade wipro WISKey 中国烟草 XILINK

Hypertiger Members - Associates



Hyperledger Momentum



7

Years since launch



1

Library



7

Tools



5

Distributed Ledgers



6

Graduated Projects



Global

Enterprises, start-ups,
academics & non-profits



16+

Active Community
Special Interest Groups
& Regional Chapters



180+

Meetups
Worldwide
(80+ countries)



95K+

Meetup
Participants



320K+

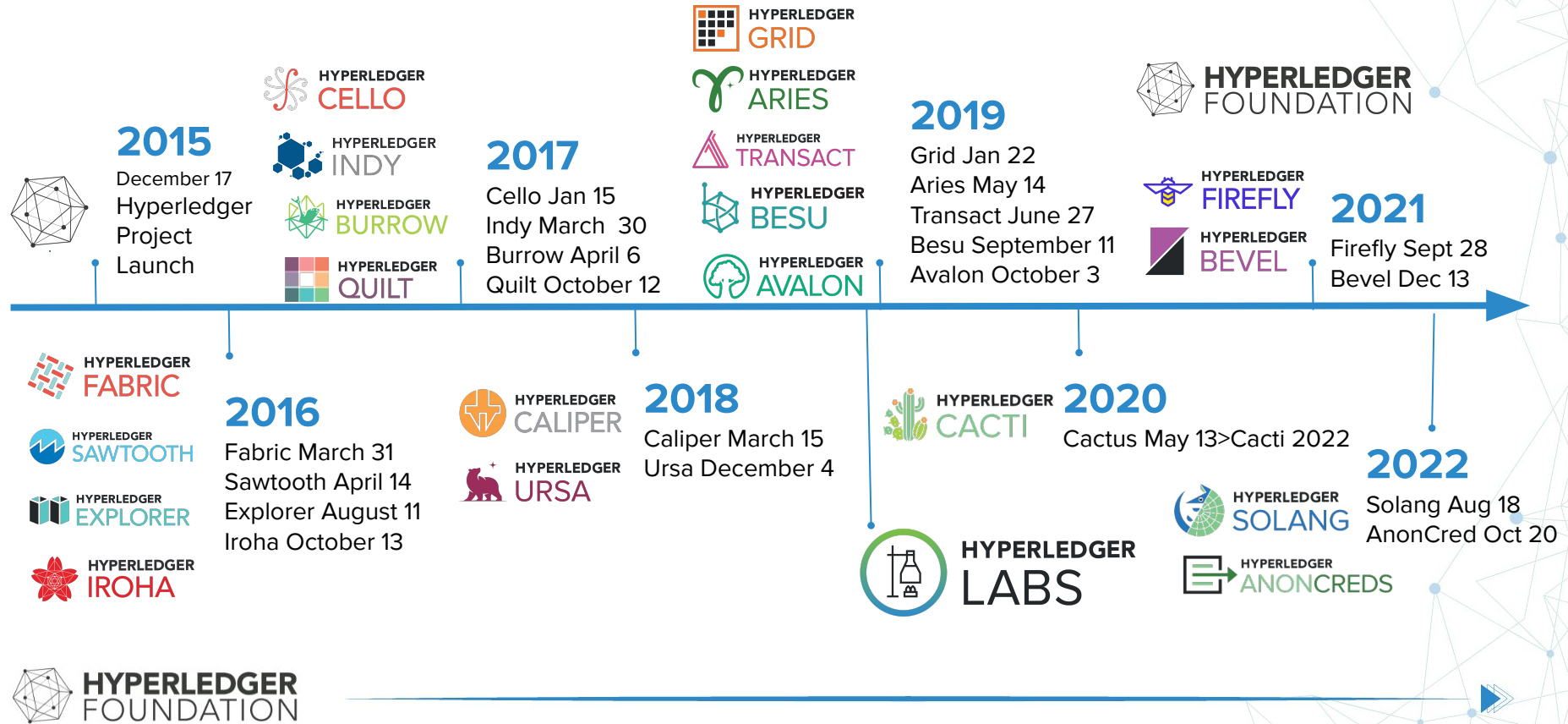
Subscribers to our mailing lists



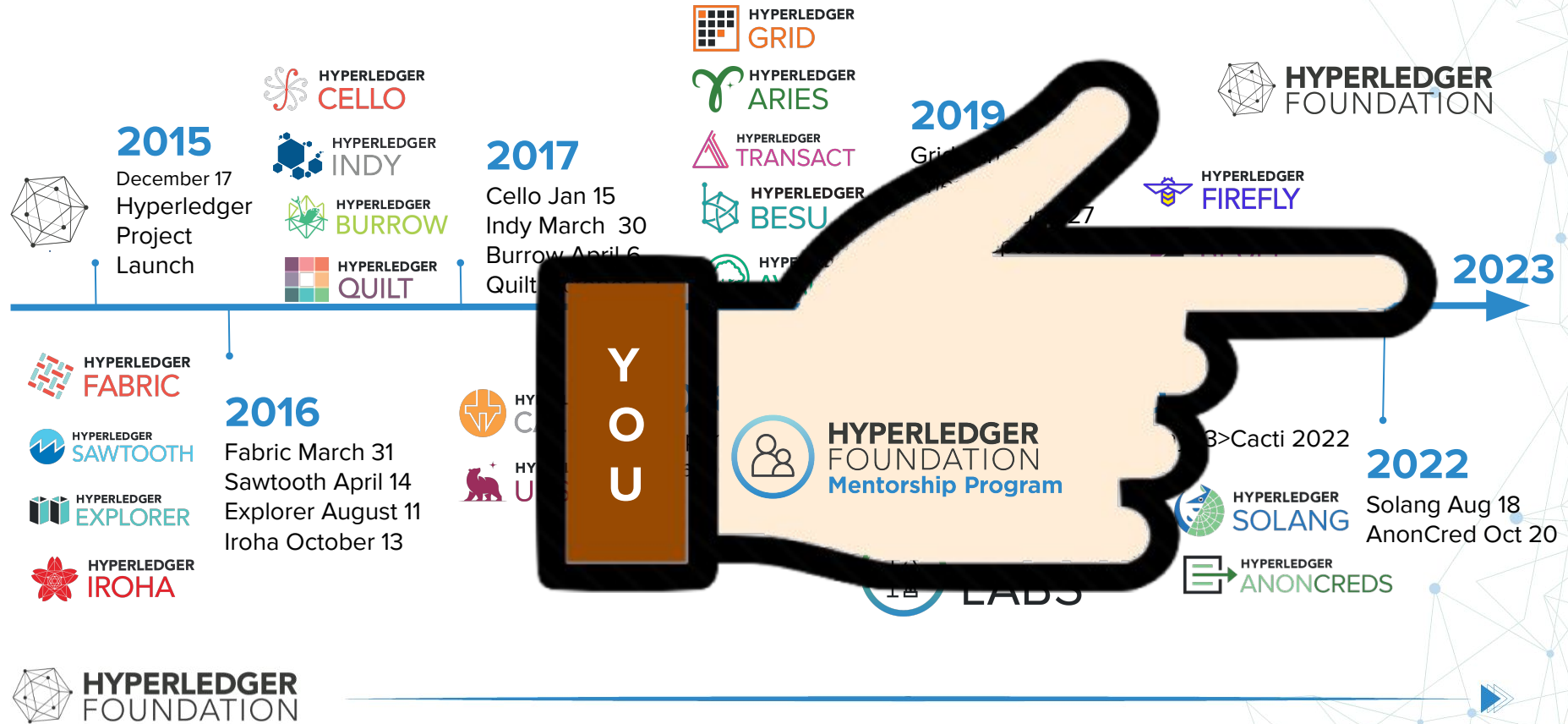


Foster and coordinate the premier community of developers building enterprise grade open source software, in the form of platforms, libraries, tools and solutions, for multiparty systems using blockchain, distributed ledger, and related technologies.

A brief history of Hyperledger



A brief history of Hyperledger





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Mentorship Program Overview

Mentorship Program Goals

- To provide structured guided hands-on learning opportunities for new open source contributors
- To address gaps in development, research, and documentation and to incubate research and lab projects
- To gain insight into new contributor onboarding processes and how to lower barriers to entry
- To provide new contributors with clearer contribution paths and mentors a rewarding way to give back to community
- To coach mentees how to participate effectively in open source community (collaborative culture, tooling, infra, etc.) and to guide them towards becoming long-term active contributors.
- To create a pipeline for a diverse and well-trained candidate pool for career opportunities in DLT ecosystem



Program Growth and Impact

- 7th year that Hyperledger is running and funding this program
- Have grown in size from 5 projects in 2017 to now 30 projects, received [60 proposals](#) this year - great to see the community's enthusiasm
- Have grown in type of activities from mainly coding to now also include documentation and research
- Have grown in impact and coverage spanning across most of Hyperledger Projects, Labs, and community initiatives in interoperability, decentralized identity, and performance and etc.
- Graduated mentees from ~ 25 countries spanning North, South and Central America as well as Europe, Asia and Africa
- Graduated mentees have become maintainers, mentors, obtained blockchain related careers or remained active in open source or DLT ecosystems.



2023 Projects Mentors Mentees

Mentorship Project	Mentor	Mentee
An object-key-value mapper for Hyperledger Fabric	Attila Klenik, Imre Kocsis	Sakshi Aherkar
aries-vcx based message mediator	Patrik Stas, Bogdan Mircea, Miroslav Kovar, George Mulhearn	Naian G
aries-vcx next-gen mobile wrapper	Patrik Stas, Bogdan Mircea, Miroslav Kovar, George Mulhearn	Swapnil Tripathi
Automated gateways through smart contracts	Sara Rouhani, Vahid Pourheidari	Koosha Khorasani
Benchmarking Cross-Chain Bridges	André Augusto, Rafael Belchior, Peter Somogyvari	Shankar Subramanian
Bevel: Documentation redesign	Suvajit Sarkar, Sownak Roy,	Mushir Lokhandwala
Cacti - Polkadot connector	Peter Somogyvari, suvajit sarkar, Jagpreet Singh Sasan	Anmol Bansal
Cacti: Decentralized Identity Management for Trusted Interoperation	Venkatraman Ramakrishna, Bishakh Chandra Ghosh, Sandeep Nishad, Sikhar Patranabis	Rudransh Sharma
Cacti: Implement Standardized Secure Asset Transfer Protocol	Venkatraman Ramakrishna, Sandeep Nishad, Sikhar Patranabis, Rafael Belchior	Zakwan Jaroucheh



2023 Projects Mentors Mentees

Mentorship Project	Mentor	Mentee
Cacti: Ledger Data Sharing with Proof in Besu and Ethereum	Venkatraman Ramakrishna, Sandeep Nishad, Sikhar Patranabis	Vatti Praveen Kumar
Design/Development of a mini game to explore decentralized Identity & Payments in Gaming & Metaverse	Sandy Aggarwal	Kyle Liu
Document, Review, and Implement Hyperledger AnonCreds ZKP Cryptographic Primitives	Stephen Curran, Mike Lodder	Aritra Bhaduri
Enhance Blockchain Explorer to accommodate new features for Hyperledger Fabric	Satyanarayana, Archana, Ajin, Arun S M, Aditya Joshi	Venkata Manoj Bhargav Maddali
Hyperledger Documentation Standards	Bobbi Muscara	Arunima Chaudhuri
Hyperledger Explorer User Interface redesign	Jayasimha Prasad, Arun S M, Ravi Pratap Singh	Deepika SR
Hyperledger Onboarding Mentor/Mentee Program	John Carpenter, Peter Somogyvari, Niku Singh	Akanksha Rani
Implement a CLI for node interactions in Hyperledger Solang	Cyrill Leutwiler	Tarek Elsayed
Implement an SSA intermediate representation for the Solang compiler	Lucas Steuernagel	Guilherme Kowalczuk
Improve Kubernetes Operators support for Fablo	Jakub Dzikowski	Joan Njeri



2023 Projects Mentors Mentees

Mentorship Project	Mentor	Mentee
Improvements in HLF-Connector. Hardening the production readiness aspects	Nithin Pankaj, Aditya Joshi	Subhranil Raha
Iroha 1: extend queries with optional arguments	Andrzej Gruntowski, Grzegorz Bazior, Aleksandr Petrosyan	Tomasz Grun
Iroha 2: blockchain explorer update	Dmitry Balashov	Kshitij Roodkee
Iroha 2: DSL	Aleksandr Petrosyan, Marin Versic	Yasser Arguelles Snape
Iroha 2: FFI client library bindings	Aleksandr Petrosyan, Marin Versic	Orange Ng
Learning Tokens @ Hyperledger Besu	Alfonso Govela	Tanjin Alam
Make the Solidity Language Server functional	Sean Young	Govardhan
One-stop-shop Hyperledger Fabric performance analysis with Hyperledger Caliper	Attila Klenik, Haris Javaid	Mayank Bondre
Performance analysis and Benchmarking of Besu using Caliper with complex workloads	Nischal Sharma, George Tebrean	Suyash Nayan
Runtime-checked automated programming for chaincode development	Bertalan Zoltán Péter, Imre Kocsis	Tanuj Surve
Telecom Decentralized Identities Network (TDIDN)	Vipin Rathi	Dinkar Jain



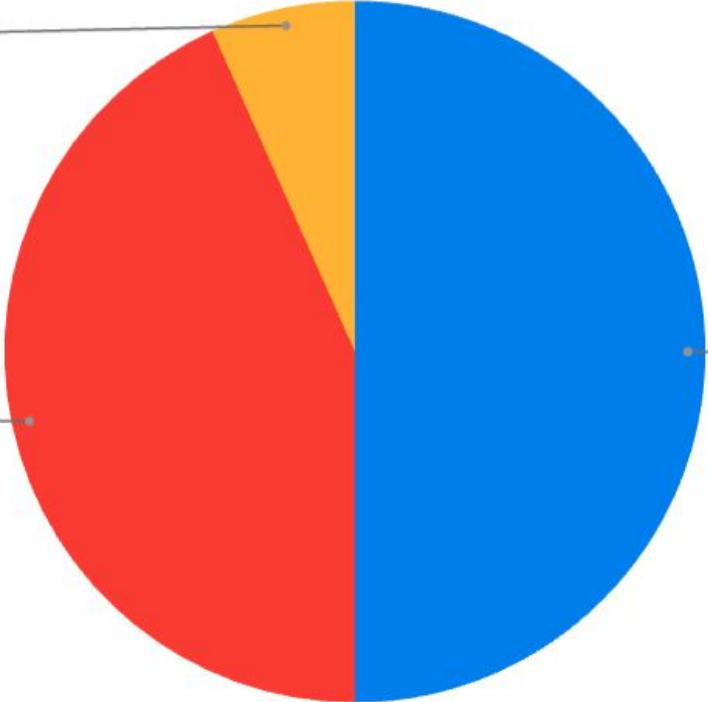
2023 Mentee Cohort Stats - Occupation

Occupation

MS student
6.7%

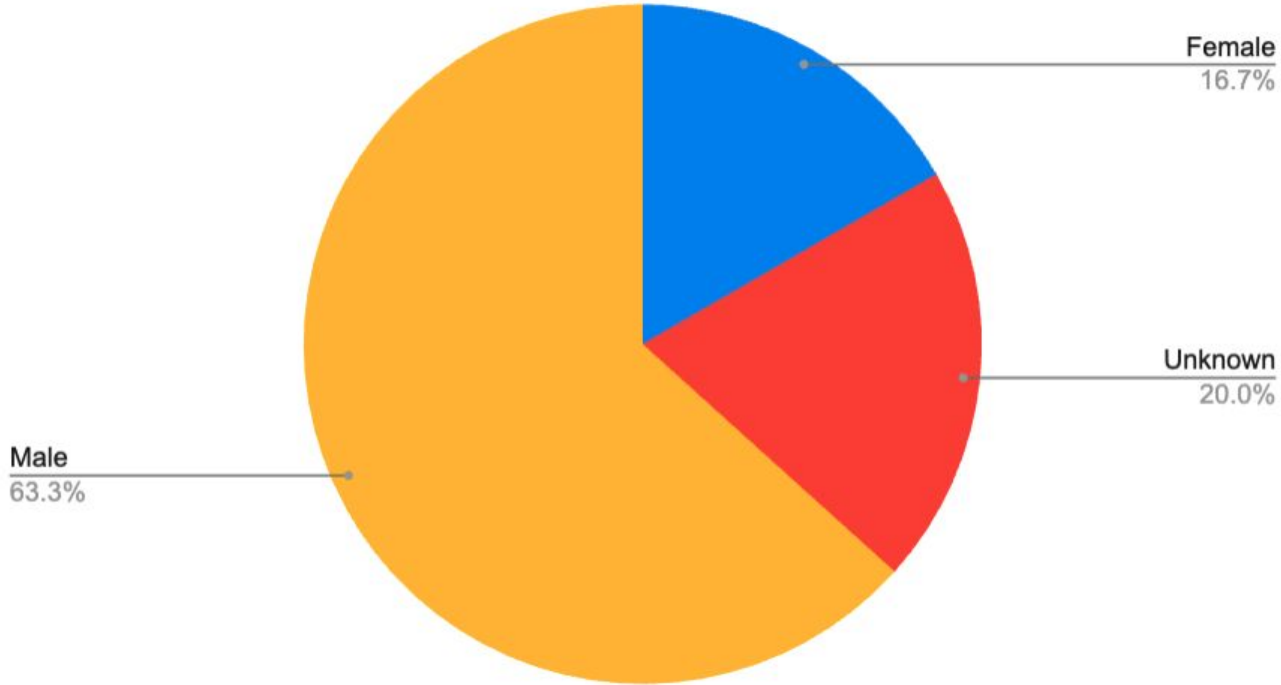
working professional
43.3%

undergrad student
50.0%



2023 Mentee Cohort Stats - Gender

Gender



2023 Mentee Cohort Stats - Country

Country

Bangladesh

3.3%

Singapore

3.3%

Poland

3.3%

Kenya

3.3%

Brazil

3.3%

Egypt

3.3%

UK

3.3%

US

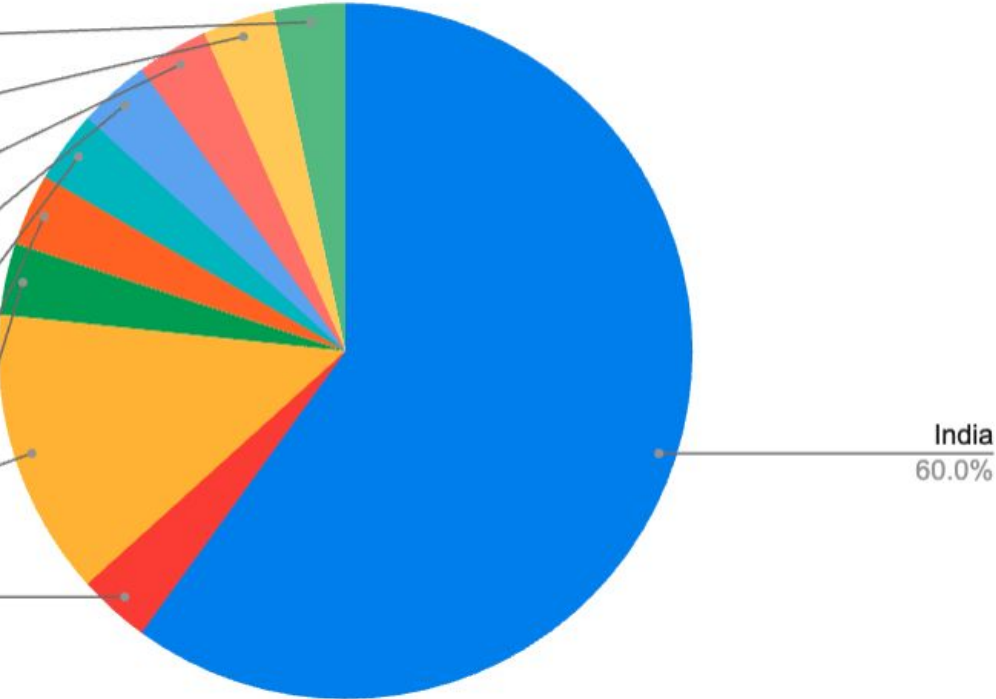
13.3%

Canada

3.3%

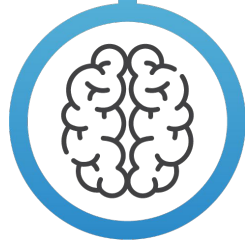
India

60.0%





Participating in an Open Source Community



You will **learn a lot** from interacting with other community members





You'll **gain experience** that will
look great on a resume and
your Github profile



Open Source Culture - Be Excellent to Each Other

- Open source development is truly global. Participants come from all cultures, all languages, all time zones. Diversity leads to better outcomes, bigger innovations, and more sustainable projects.
- Asynchronous in nature. Most collaboration is done via email, forum posts, mailing lists, and pull requests.
- Cooperation and consensus building is the ***greatest challenge***. Respect others' opinions. Maybe your approach is not the best one. Learn when to yield. When making criticisms or engaging in any discussion thread, be polite and respectful.



Many mentees haven't been involved in an open source project before it can be overwhelming/intimidating to start participating.

Here are some tips to help you get comfortable:



Feel free to lurk

Seeing how mentors and other community members interact will help mentee adjust and learn the social norms in the community



Don't wait for an invitation

Our tools and meetings are open by default, so feel free to jump in and introduce themselves, ask questions and share ideas



Read our Code of Conduct

Be sure to review with your mentee as well as to model the high standards of professional practice.



The background of the image is a workshop filled with various tools, including hammers, wrenches, and saws, arranged on shelves and workbenches. The entire scene is overlaid with a semi-transparent blue filter. In the bottom right corner, there is a white network diagram consisting of several circular nodes connected by lines, representing a digital or interconnected theme.

Learn the Basics About our Tools

hyperledger.org/participate/collaboration-tools



Account

Sign up for a Linux Foundation account



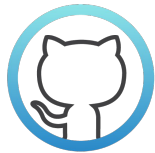
Chat

Join the discussion on chat



Mailing Lists

Participate on the Hyperledger Mailing Lists



Github

Check out our code repositories



Wiki

Get the latest development updates from the wiki

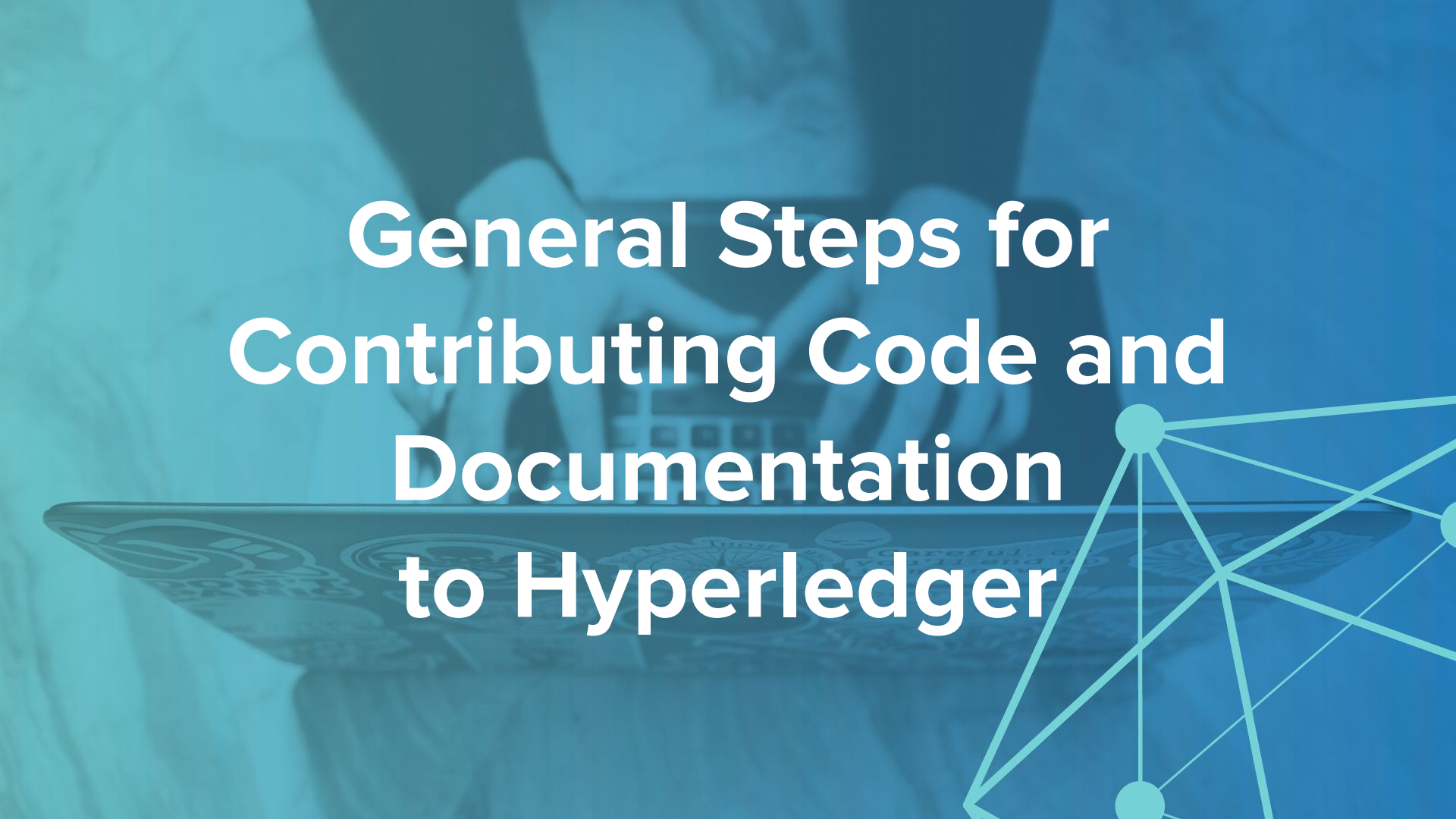


Bug Reporting

Search for open bugs, or report a new one, in our bug database



General Steps for Contributing Code and Documentation to Hyperledger

The background features a person's hands holding a tablet. The tablet screen displays a network diagram with several nodes and connecting lines. The overall image has a blue tint.

Contribute Code to an Existing Project

1

CONTRIBUTING
guides

2

Get a copy of
the **repository**

3

Find the **issue**
you wish
to work on

4

Make your
changes

5

Create a **pull**
request

6

Expect
comments

7

Address
comments



Becoming a Project Maintainer

You can help set the direction and future of any of the [Hyperledger projects](#) by taking a leadership position

By contributing to a project over time with high quality contributions, you may become a maintainer (get a commit bit)

The process differs from project to project so check documentation for the project you're interested in



Mentoring and Learning Expectations



Project Planning

Project planning clarifies objectives, scope, milestones and deliverables, it helps breaks down complexity, focus time and effort, meet deadlines and keep stakeholders in the loop.

- Essential elements of a project plan
 - State the project objective, due date, key outcomes and success metrics
 - Map out project scope - what it entails and what it doesn't
 - Plan activities, milestones, and timeline - use the program schedule to set milestones to monitor progress
 - Include reference materials
- Collaboratively develop project plan in the next 2-3 weeks
- Post project plan on wiki by **June 30** for transparency and accountability
- Project plan can be refined/modified as things progress
- Sample project plans

<https://wiki.hyperledger.org/display/INTERN/Project+plan+-+Solang+compiler+passes+2021>



Working Virtually

Being intentional about how you spend your time and how you communicate, you can work and collaborate effectively, even at a distance.

- Establish routine, minimize distractions, effectively manage time
- Set mini (daily or weekly) goals
- Get facetime and let your voice be heard
- Nurture relationships and sense of being part of a community
- Be mindful of timezones and others' communication preferences
- Use regular weekly meetings to align goals, report progress, seek/offer feedback, and do creative and strategic discussions
- Work side by side through video to brainstorm, ask questions, problem solve, and encourage productivity
- Carefully approach how often you use messaging/chat to ensure you have time for focused work while balancing team collaboration



Communication

Keeping the line of communication open builds trust, respect, positive relationship that facilitates successful completion of the project.

- Schedule weekly check-ins to review progress, blockers, upcoming tasks
- Clarify communication channels and norms (e.g. email, chat, calls, wiki, response time, writing style, tone, tolerance for humor and informality)
- Be aware of communication challenges across time zones and language/cultural differences. Be on time for scheduled meetings and be respectful of others time.
- Don't be afraid to ask questions, be upfront about expectations, skill and knowledge required and if there are gaps.
- Inform each other of planned vacation or leaves in advance and plans to make up for lost days. Notify if emergencies. Non-responsiveness is one of the worst hurdles to coaching/learning and making progress.
- Over communicate is usually better than under communicate but don't bombard with messages.



Networking and Community

Gaining a broader understanding of the blockchain community, industry, potential career path can help generate new ideas and help new participants become long-term contributors

- Understand context for how work relates to Hyperledger mission and goals
- Mentors model desirable behaviors so mentees can learn to participate in OS community with increasing confidence and independence
- Move code to [Hyperledger Labs](https://github.com/hyperledger) to build community and continue momentum
- Network with peer mentees and other professionals beyond your immediate team at Workshop, meetup, or conferences and etc.
- Attend/organize a [Hyperledger meetup](#) in your local community
- Explore projects under the Hyperledger umbrella and how the community is organized and how you may be able to participate or contribute
- Sign up for Hyperledger /dev/weekly and monthly newsletter <https://www.hyperledger.org/> to stay informed about what's happening



Marketing & Visibility

The Hyperledger social community is global and very large and can be a great way for you to promote the work you are doing!

- Follow Hyperledger on [Twitter](#) and [LinkedIn](#) and join your local [meetup](#)
- Update your LinkedIn profile with your mentor/mentee role at Hyperledger
- Follow your mentor on social, tag them and thank them for their support
- Tag your social posts with #Hyperledger and we will reshare across channels!
- If you have a blog, Medium, LinkedIn or other types of longer content tools write ongoing updates on your work and share
- Get featured in Mentorship Showcase series at completion



Additional Resources



Introduction to Document Standards Task Force

Sub Committees

- GitHub
- Templates
- Best Practices
- Onboarding
- User Guides



Introduction to the Committee Members

Gianluca Capuzzi

gianluca.posta78@gmail.com

- Chair of Github / Template
- Interested in Fabric and Iroha but I available to other priority project



Kajal Kumari

kajalkumari130801@gmail.com

- Contribute in GitHub, templates and best practices
- assist the Bevel mentee



Akanksha Rani

akankshar8800@gmail.com

- Asses and Improve Onboarding process
- Streamline Documentation
- Comprehensive Onboarding Guides

Agnes

agnesndutamwaniki@gmail.com

- Looking to support Python-based projects
- Already identified Indy and Aries and attended contributor meetings.



Key Program Dates

June 12 - November 30: mentor mentee working period

- 1st two weeks: program and project-specific onboarding
- June 30: project plan posted on the wiki
- July 21: 1st evaluation
- September 1: midterm evaluation and stipend payment request*
- October 13: 3rd evaluation
- November 24-30: wrap up, final evaluation and stipend payment request*
- December and beyond: showcase through blogging, speaking at meetups or regional events or travel to a global Hyperledger event to present work and network with others in broader community and continue participating

**Note: Mentee will received a midterm and a final stipend if in good standing following satisfactory midterm and final evaluations. It may take up to 30 business days to approve and process international stipend payments.*





Questions?

Discord chat channel

mentorship@hyperledger.org (program staff)

mentors2023@lists.hyperledger.org (peer mentors)

mentees2023@lists.hyperledger.org (peer mentees)