



Learn How To Contribute to Open Source Projects and Accelerate Innovation - with **All Star Dinesh**



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About me

- Open Source Contributor

Apache Hadoop - Committer

Apache Ozone - PMC and Committer

- Engineering Leader @ AMD
- <https://github.com/dineshchitlangia>

What is Open Source Software?

- Publicly accessible design
- Allowed to modify and share
- Linux
- ASF - Apache Hadoop, Apache Ozone, Apache Spark etc
- CNCF - Kubernetes, Prometheus, Fluentd etc

Open Source @ AMD

- AMD Research Projects like Omnitrace, DAGEE, ATMI, ROC_SHMEM
- AMD contributes to Apache Hadoop, Apache Yarn, FFMpeg
- Hiring Open Source SW Developers in the US

<https://jobs.amd.com/job/Austin-Server-Application-Engineer-116505-Texa/793568300>

Benefits of contributing to Open Source projects

- Learn (Soft skills & Technical skills)
- Sharpen your skills
- Build your resume
- Community/Peer recognition
- Professional Network, Meetups, Conferences

...But I don't code, how can I contribute?

- Knowledge Base (Docs-Multilingual, Tutorials, Blog)
- Use it, Report bugs and UX improvements
- Educate
- Advocate
- Promote

Myths about Open Source

- All good devs do Open Source contributions
- Only Committers/Maintainers can review code
- Only Committers/Maintainers can suggest new features
- It's easy

Getting started

- Read the project's README file for code of conduct, contributor guidelines
- Contributor License Agreement
- Set version control system (Github)
 - Fork the repository
 - Clone the forked repository
- Set up development environment
- Subscribe to user and developer mailing lists

What kind of tasks can a newbie do?

- Add/Improve knowledge base
- Trivial code changes
- Write unit test cases
- Improve log messages
- Improve the project website
- Code review (This activity doesn't involve create a Jira task)

<https://issues.apache.org/jira/browse/HDDS-4903>

<https://issues.apache.org/jira/browse/HDDS-6688>

<https://issues.apache.org/jira/browse/HDDS-4903>

Contributing

- Check with Employer's Legal Team to ensure that the change you want to contribute doesn't have any conflicts
- Find a newbie task or create one
- Ensure your fork is in sync with remote
- Create a new branch where you will make your changes
- Commit the changes
- Push the changes to your fork
- Open a Pull request
- Address any feedback with new commits on the Pull request
- Pull Request merged by the maintainers

Good etiquettes

- Subscribe to dev and user mailing lists and participate.
- Do your homework before asking questions
- Public communication
- Be patient (Apache Hadoop has ~250 committers)
- Be respectful
- Accept feedback
- Respect community decisions

Resources

- Git 101 - <https://www.w3schools.com/git/>
- AMD Research Open Source Projects - <https://www.amd.com/en/corporate/research-opensource>
- ASF projects - <https://projects.apache.org/projects.html>
- CNCF projects - <https://www.cncf.io/projects/>
- Apache Hadoop - <https://projects.apache.org/committee.html?hadoop>
- ASF's Individual Contributor License Agreement - <https://www.apache.org/licenses/icla.pdf>

Questions ?

Thank you!