



# PRESIDENCY UNIVERSITY



Presidency University Act, 2013 of the Karnataka Act No. 41 of 2013 | Established under Section 2(f) of UGC Act, 1956  
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## Career Counselling and Guidance Cell (CCGC)

Present

Online in MS-Teams

*Webinar* on

## The Blessing of Open-Source Software - Career Prospects

10<sup>th</sup> Dec 2022, Saturday

9:30 AM to 11:30 AM

<https://forms.office.com/r/X7GAzxBvrr>



Speaker:

**Mr. Dinesh Chitlangia**

Engineering Leader @ AMD, USA

Target Audience:

School of Computer Science & School of Engineering Students

Register Now



### Faculty Coordinators:

**Mrs. Pavithra N**

Assistant Professor, School of CSE & IS

**Mrs. Manasa C M**

Assistant Professor, School of CSE & IS

**Mr. Srvinay**

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**Dr. Md. Sameeruddin Khan**

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**Dr. Abdul Sharief**

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**Presidency University, Bangalore**

School of Computer Science Engineering & Information Science



# The Blessing of Open Source Software



**Dinesh Chitlangia**

Engineering Leader @ AMD

Contributor, The Apache Software Foundation

**December 10th, 2022**

# About me


- Open Source Contributor

Apache Hadoop - Committer

Apache Ozone - PMC and Committer

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

What  
does  
OPEN  
mean?

 o·pen  
/ˈɒp(ə)n/

See definitions in:

All Textiles Medicine Sport Military Finance Mathematics Music ▾

*adjective*

1. allowing access, passage, or a view through an empty space; not closed or blocked up.  
"the pass is kept open all year by snowplows"  
Similar: not shut not closed unlocked unbolted unlatched off the latch ▾
2. exposed to the air or to view; not covered.  
"an open fire burned in the grate"

*verb*

1. move or adjust (a door or window) so as to leave a space allowing access and view.  
"she opened the door and went in"  
Similar: unfasten unlatch unlock unbolt unbar unclick throw wide ▾
2. unfold or be unfolded; spread out.  
"the eagle opened its wings and circled up into the air"  
Similar: spread out unfold unfurl unroll straighten out extend ▾

*noun*

1. outdoors, especially in an exposed or unprotected setting.  
"guests were sitting in the open on the terrace"
2. a championship or competition with no restrictions on who may compete.  
"his victory in the 2003 Australian Open"

# What is Open Source Software?

- Publicly accessible design/source code
- 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>

# Blessing of contributing to Open Source

- 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

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

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

# Contributing

- Check with your University/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

# Contributing

- 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 etiquette

- 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
- Be “OPEN” - 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!**