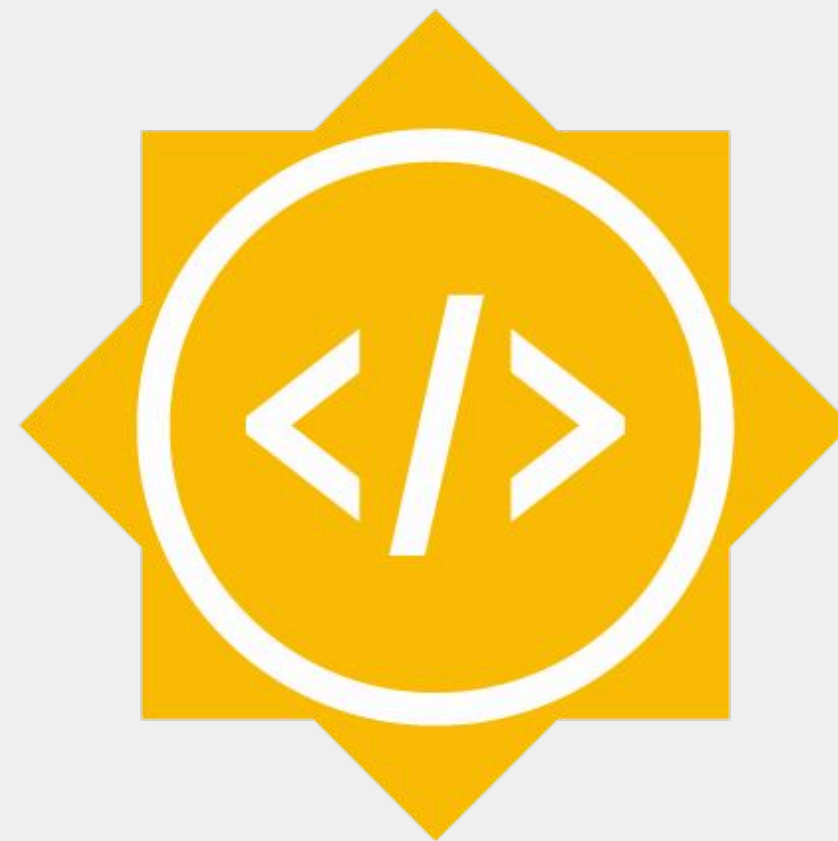


# GSoC Introductory Seminar





# Google Summer of Code

## What is GSoC?

Google Summer of Code (GSoC) is an online, international program designed to encourage people to participate in open source software development.

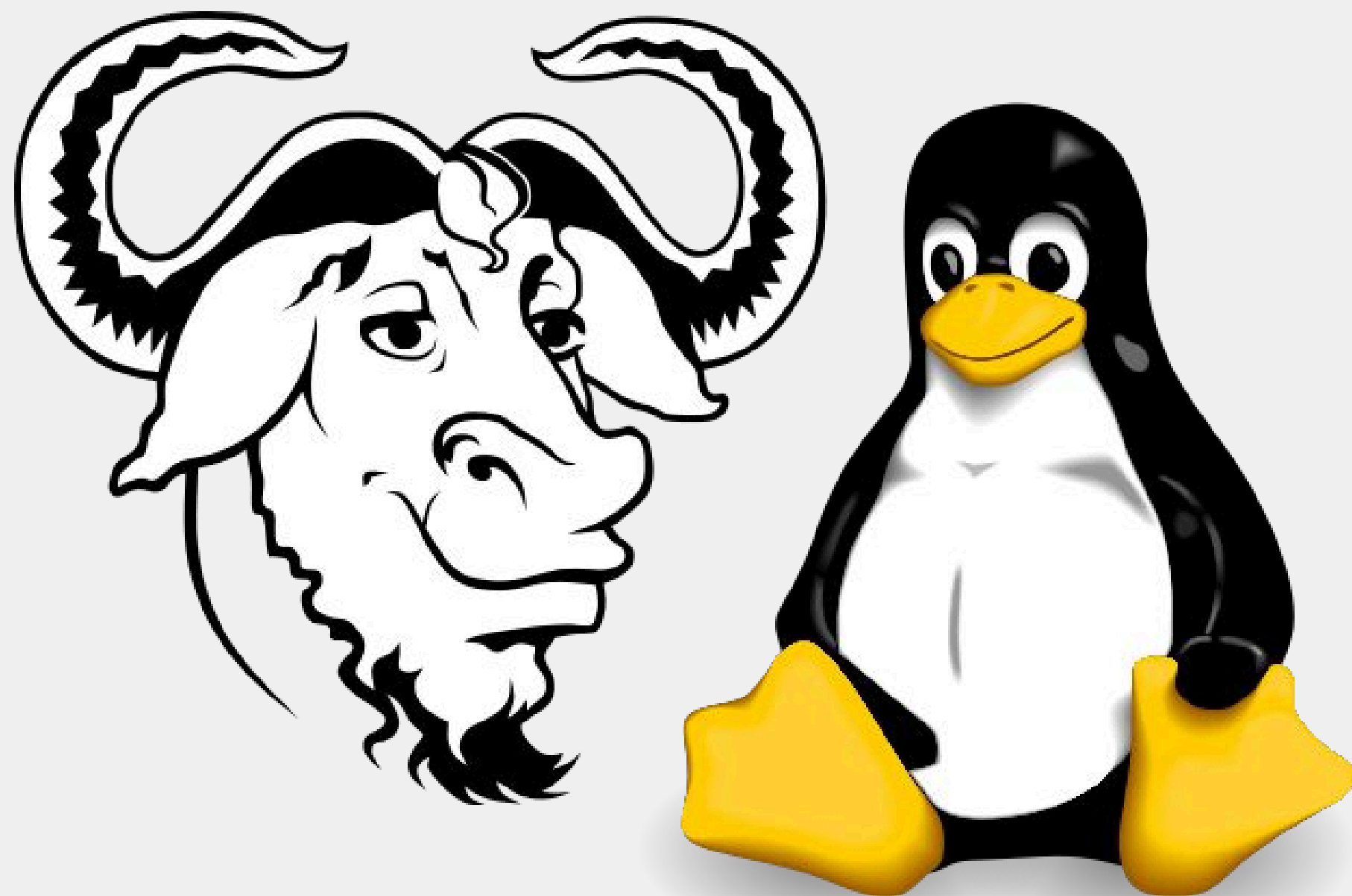
# Open Source vs Proprietary Software

Proprietary Software is “property” of someone else and you are licensed to use it, in way the owner wants you to use it.

Accessibility to the source code is a major difference between open source software and proprietary software.



● Google Chrome vs Firefox





# Google Summer of Code

## How does GSoC work?

1. Open source software projects apply to be mentor organizations
  2. Google chooses the organizations to participate (200+ in 2024)
- Students submit project proposals to mentor organizations



# Google Summer of Code

## How does GSoC work?

3. Mentor organizations choose the students they'd like to accept
4. Students are paired with a mentor to help them throughout their project
5. Coding begins! Students work towards milestones laid out in their project proposal with their mentor over 10 weeks



# Google Summer of Code

## Evaluations

Students must pass two evaluations

Students who pass each evaluation are paid a stipend for their work

At the conclusion of GSoC, students submit the code they've written for their project for everyone to see and use!

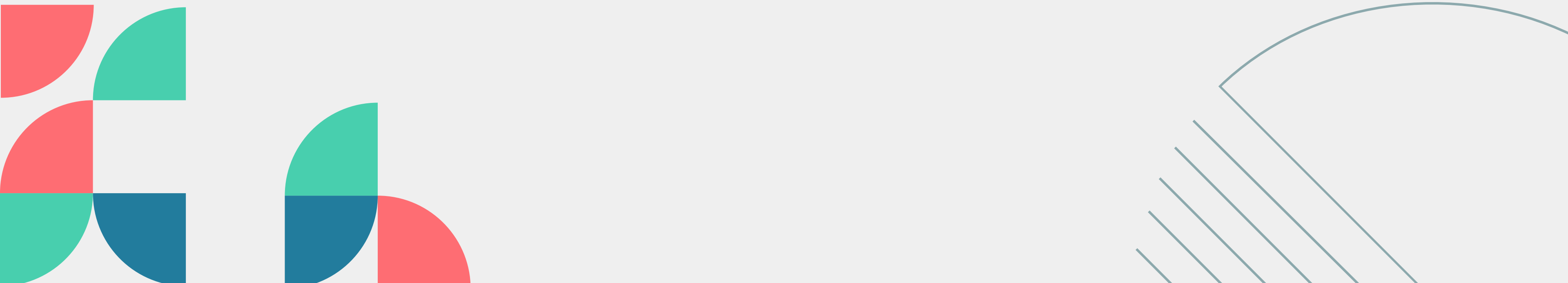


# Eligibility and Timeline





## Things that you don't need to be for getting selected for GSoC

- Dassi.
  - Student of CSE Dept.
  - Competitive Coder.
  - Expert level programmer.
- 

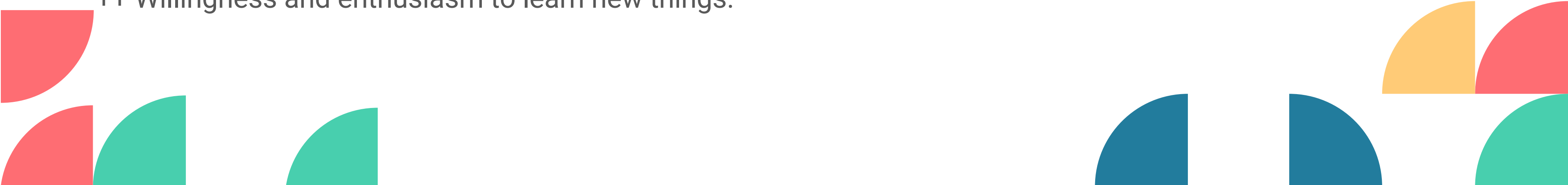


# Google Summer of Code

## Eligibility

- Over 18 upon registration
- Must be a student or an open source beginner
- Eligible to work in the country in which you reside
- Have participated in no more than 1 previous GSoC
- Shouldn't be an immediate family member of an accepted GSoC Contributor in the Program with the same Organization or a member of the same household

++ Willingness and enthusiasm to learn new things.





# Google Summer of Code

## Statistics

- In 15 years over 15,000 students from 104 countries have been accepted into GSoC
- Countries with the most students:
  - India (2,831), United States (2,328), and Germany (772)
- 77.5 % were UGs in GSoC 2020, from various branches - Electrical, Mechanical, Civil, Mathematics, Computer Science etc.
- Mentors that are former GSoC students: 691





# Google Summer of Code

## Useful links

Program Site: <http://g.co/gsoc>

Student Manual: <http://g.co/gsoc/studentmanual>

Google Open Source Blog: <https://opensource.googleblog.com/>





# Google Summer of Code

## 2024 Program Timeline

<b>November 20, 2023:</b>	Program Announce Date
<b>January 22, 2024:</b>	Org Applications Open
<b>February 06, 2024:</b>	Org Application Deadline
<b>February 20, 2024:</b>	Org Notification Date
<b>February 21, 2024:</b>	Accepted Orgs Announced
<b>March 18, 2024:</b>	Contributor Proposals Open
<b>April 02, 2024:</b>	Proposal Deadline
<b>April 24, 2024:</b>	Proposal Ranking Deadline
<b>April 29, 2024:</b>	Slot Allocation Deadline
<b>April 30, 2024:</b>	Projects Announced to Orgs
<b>May 01, 2024:</b>	Accepted Projects Announced
<b>November 14, 2024:</b>	Program End Date



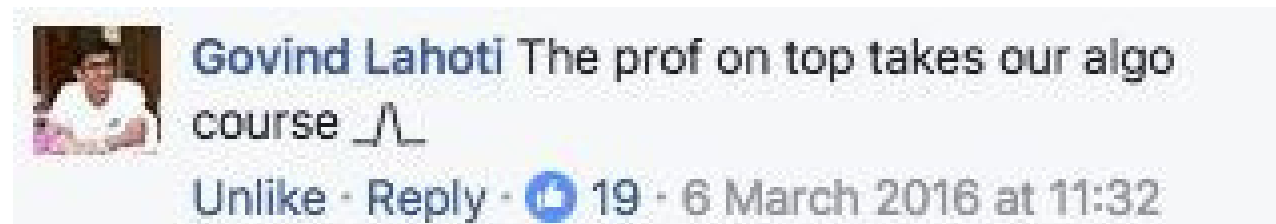
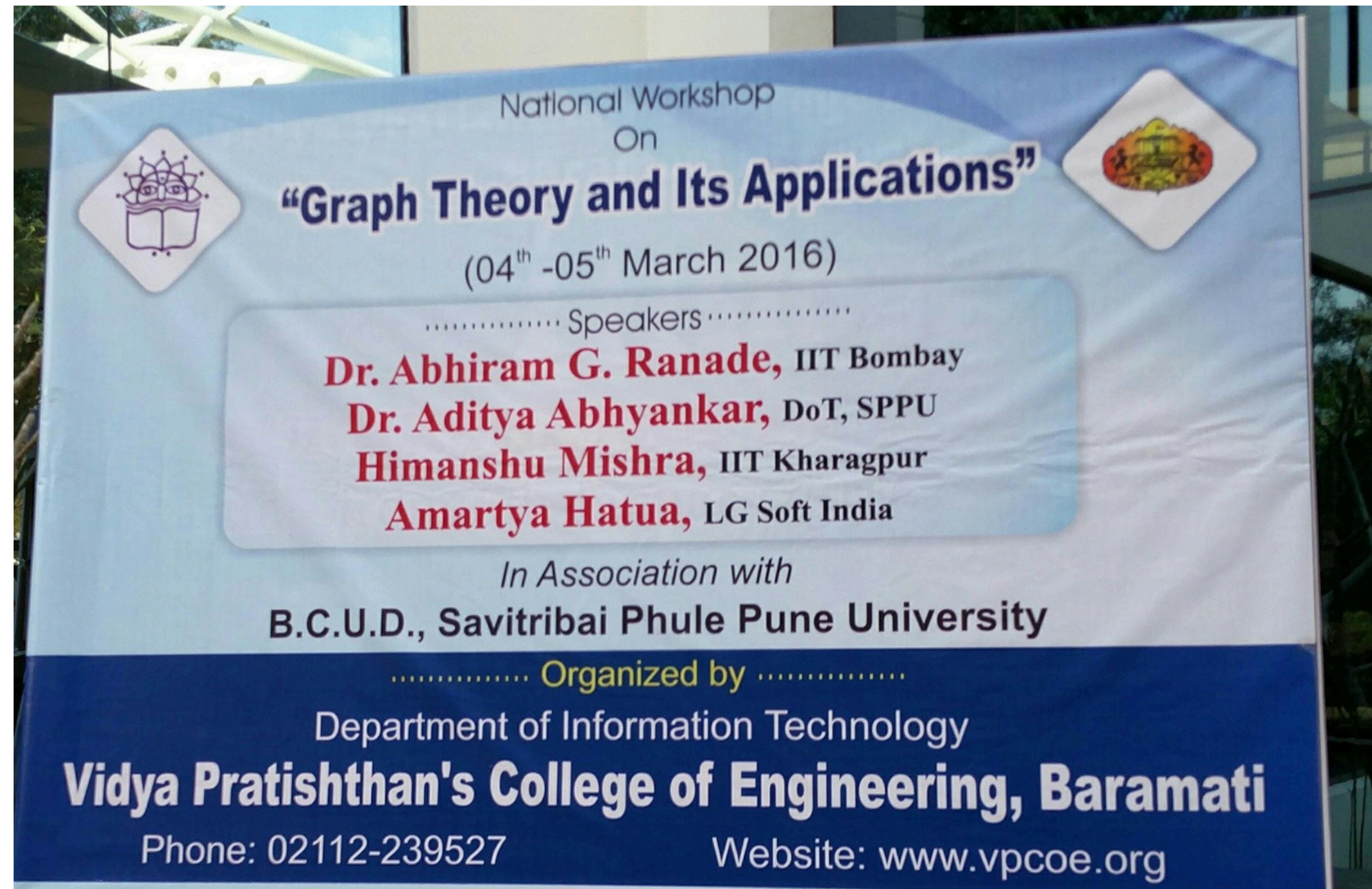
# Perks of GSoC

Let's talk about some swag

- Software development skills
- Stipend of \$1500 (min)(*Multiply by 84.05 later*)
  - This is optional. You can also abstain from receiving the stipend :p
- After GSoC:
  - Contacts, Letter of Recommendation
  - Publishing paper(s), invitation to talks
  - Conferences, Travel







Tutorial on NetworkX, Pune University, 2016





## Student Dev Speakers

19-20th January, 2019



**Saicharan Reddy**

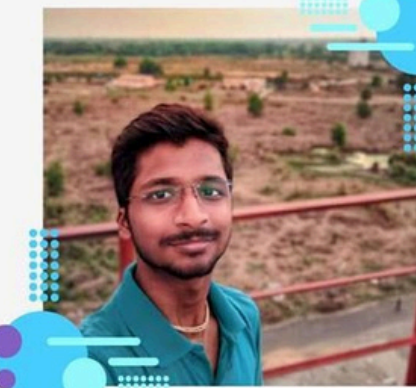
Founder, Freeflo

Embracing New Technologies  
is the Key to the Future.

**Tarun Kumar**

IIT Patna

Hacking Free Online Tools  
to Automatically Build Your  
Linux OS with Meilix Scripts



**Shivam Kumar Jha**

IIT Kharagpur

A Dig At Perpetual Processes



**Wasim Tabraze**

Senior Software Engineer,  
Zemoso Labs

Jumpstart to Docker

Shivam Kumar Jha at  
Indian Institute of Information Technology Allahabad,  
2019



# How to select Organizations



# Demo- How to search projects.



# Demo- Proposal drafting

# A few tips that will come in handy!

---

- Use archives to see which orgs get selected every year.
- Choose projects which are at the intersection of your field and computer science. You always get a head start
- It is advisable to look through the programming language organizations selected such as Python Software Foundation, R Foundation and Julia as these have projects from diverse fields such as mathematics, finance, physics, biotechnology, chemistry etc.
- Avoid orgs solely related to ML,DL or AI (unless you are an expert in the field). (usually MS/PHD students are preferred)





Google  
Summer of Code






Finance	R, Python
Biotechnology	BioJS, cBioPortal, e!, NUMFOCUS Global alliance for genomics, Open Genome Informatics, Open Bioinformatics Foundation
Geoinformatics	52°North Initiative, OSGeo
Chemistry	Open Chemistry
Mathematics	Sage Mathematics, ASCEND, Scilab, R, Gambit(Game Theory), cvxpy, Julia, SymPy, NUMFOCUS





Astronomy	OpenAstronomy
Electronics	beagleboard.org
Electrophysiology	Open Ephys
Physics	JuliaQuantum, Python
Social/Communications	CiviCRM, Berkman Centre







# DO's and DON'Ts



## DON'Ts

- Don't be vague
- Don't ask generic questions

## But

- Don't hesitate.
- Don't expect instantaneous replies.
- Don't personally mail or DM the mentors.\*
- Don't write follow up comments if you don't get a reply.

\* Depends on the Organization, checkout the guidelines





# Why?

- They are busy people.
- They are nice people.



# DON'Ts

“Dear Sir”

“May I ask a question?” Do not ask to ask.

Don't try to undermine other applicants, at-least seem helpful ;)



# DOs

- Being persistent is the key.
- Be active on slack, irc, gitter, google groups etc.  
(Make yourself visible)
- Research your questions thoroughly.
- [CATB Guide](#)

# DOs

If you don't get an answer to a coding specific question, try other platforms like StackOverflow.  
Helping others = Getting help for yourself!

# Proposal Drafting Advice

- Look at previous year's proposals.
- Often orgs and mentors have a specific set of question and expectations, do include those in the proposal.
- Basic structure includes
  - About me
  - Previous relevant open source contribs
  - Why am I suitable for this project, why I want to work on this project (The above stuff should only be 20-30 percent of proposal) Sometimes orgs have page limit, stick to it.
- The majority of the proposal should be explaining the project - Motivation, Plan, Execution, Timeline (Do not skip out tests, blogs, docs)
- Mention other commitments, if any.

Open

<https://github.com/OrkoHunter/gsoc-FAQs>  
[thealphadollar/GSoCOrgFrequency: List of GSoC](#)  
[organisations with number of times they have been](#)  
[selected. \(github.com\)](#)

Or

[v.ht/gsocfaq](https://v.ht/gsocfaq) (Very Short link)

- Click on **Watch** button on the top, to receive emails.
- Read through the **README** completely
- Create a new **Issue** if you have have a question which is not in the README

# Programs similar to GSoC

Checkout

[deepanshu1422/List-Of-Open-Source-Internships-Programs: A curated list of all the open-source internships/Programs \(github.com\)](https://github.com/deepanshu1422/List-Of-Open-Source-Internships-Programs)

Women in Community

- Rails Girls Summer of Code
- Outreachy

Name	Stipend	Timeline
MLH Open Source Fellowship	Yes	<a href="#">timeline</a>
Season of Docs	Yes	<a href="#">timeline</a>
Season of KDE	No	<a href="#">timeline</a>
Outreachy	Yes	<a href="#">timeline</a>
RGSOC	Yes	<a href="#">timeline</a>
Tweag I/O Summer Internship	Yes	<a href="#">timeline</a>
TOR Summer of Privacy	Yes	<a href="#">timeline</a>
GSOC	Yes	<a href="#">timeline</a>
SOCIS	Yes	3 months
LFN Mentorship Program	Yes	<a href="#">timeline</a>
The X.Org Endless Vacation of Code (EVoC)	Yes	<a href="#">timeline</a>
<a href="#">DataONE Summer Internship Programme</a>	Yes*	<a href="#">timeline</a>
Julia Summer of Code	Yes	<a href="#">timeline</a>
OWASP Code Sprint	Yes	<a href="#">timeline</a>
Free Software Foundation Internship	No	<a href="#">timeline</a>
Radare Summer of Code	Yes	<a href="#">timeline</a>








# KWoC

## Kharagpur Winter of Code

Kharagpur Winter of Code is a 5-week long online program for students who are new to open source software development. The program not only helps you to get involved in open source, but also prepares them for many open source summer programs; Google Summer of Code being one of them.



## Recommended materials:

- Official student guide by Google
  - Unofficial GSoC FAQs by Himanshu Mishra(MA'19): <https://github.com/OrkoHunter/gsoc-FAQs>
  - Dr. Chris Rackauckas (MIT), Julia - [Tips for your GSoC application](#)
  - GSOC: HOW? THIS? THAT? at <https://thealphadollar.me/experience/2018/12/03/how-i-prepared-for-gsoc-18.html>
- 



# GSoC History from IIT Kharagpur



2015 - 8

2016 - 15

2017 - 31

2018 - 22

2019 - 19

2020 - 9

2021 - 0

2022 - 2

2023 - 5

2024 - 7

**KGP in GSoC**

# 2019-19

## Schools with the most accepted students for GSoC 2019:

University	# of Accepted Students
Indian Institute of Technology, Roorkee	48
International Institute of Information Technology - Hyderabad	29
Birla Institute of Technology and Science, Pilani (BITS Pilani)	27
Guru Gobind Singh Indraprastha University (GGSIPU Dwarka)	20
Indian Institute of Technology, Kanpur	19
Indian Institute of Technology, Kharagpur	19
Amrita University / Amrita Vishwa Vidyapeetham	14
Delhi Technological University	11
Indian Institute of Technology, Bombay	11
Indraprastha Institute of Information and Technology, New Delhi	11

# 2017 - 31

Top 10 schools by students accepted for GSoC 2017

University Name	Country	Accepted Students
<a href="#">International Institute of Information Technology, Hyderabad</a>	India	39
<a href="#">Birla Institute of Technology and Science, Pilani (BITS Pilani)</a>	India	37
<a href="#">Indian Institute of Technology, Kharagpur</a>	India	31
<a href="#">University of Moratuwa</a>	Sri Lanka	24
<a href="#">Delhi Technological University</a>	India	23
<a href="#">Birla Institute of Technology and Science Pilani, Goa Campus</a>	India	18
<a href="#">Indian Institute of Technology, Roorkee</a>	India	18
<a href="#">Indian Institute of Technology, Bombay</a>	India	15
<a href="#">LNM Institute of Information Technology</a>	India	15
<a href="#">TU Munich/Technische Universität München</a>	Germany	14



# ✨ GSoC Stories ✨

# Volunteers to contact

- [https://wiki.metakgp.org/w/Google\\_Summer\\_of\\_Code](https://wiki.metakgp.org/w/Google_Summer_of_Code)





# Q&A





# Thank you !

Provide your feedback at  
[bit.ly/gsoc24\\_koss\\_feedback](https://bit.ly/gsoc24_koss_feedback)

Slides will be posted on  
<https://whatsapp.com/channel/0029VaR3Adf8vd1TKOUtCo3W>