

Google Summer of Code **AND** Open Source



BITS Goa Women in Tech

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Hi, I'm Ankita!

- 4th year Dualite in Bio+CS
- Upcoming SWE intern at Google
- GSoC'24 mentor at DeepChem
- Intern at Deep Forest Sciences



What is GSoC?

Google Summer of Code (GSoC) is a global, online program that brings together student developers and open-source organizations. Participants work on real-world open-source software development projects during a summer.

What is Open Source?

Open source refers to software whose source code is publicly available for anyone to view, use, modify, and share. Instead of being owned by a single company, it's built collaboratively by a community of developers worldwide.

Why GSoC?

- Learn by Doing
- Mentor Support
- Cool Stuff for Your Resume
- Earn While You Learn
- Feel Like a Pro
- Career Booster
- Be Part of Something Bigger
- Meet Amazing People

More about GSoC

GSoC requires a time investment of about 90 hours for small projects, 175 hours for medium projects, and 350 hours for large projects. For contributors in India, the corresponding stipends are \$750, \$1500, and \$3000, respectively. It's essential to communicate any planned breaks or vacations with your mentor early and collaboratively plan adjustments, like extending the standard 12-week timeline or intensifying coding efforts in certain weeks, to meet project goals

Timeline

1. Open source software projects apply to be mentor organizations
2. Google chooses the organizations to participate
3. Contributors submit project proposals to mentor organizations
4. Mentor organizations choose the contributors they'd like to accept
5. Contributors are paired with a mentor to help them throughout their project
6. Coding begins! Contributors work on their project under the guidance of their mentor over 12 weeks (possible extensions available)

● NOVEMBER 20, 2023 11:30 PM
Program Announce Date

● JANUARY 22, 2024 11:30 PM
Org Applications Open

● FEBRUARY 06, 2024 11:30 PM
Org Application Deadline

● FEBRUARY 20, 2024 11:30 PM
Org Notification Date

When should I start?

Right now. It's not too late, starting now will give you enough time to get used to your organization, to know your mentors and change if it isn't the right fit.

How do I start?

Learn Git.

How much previous experience is needed?

You have to know how to code (in any language), but you don't need to be an expert! GSoC is open to all newcomers 18 years and older.

How to start?

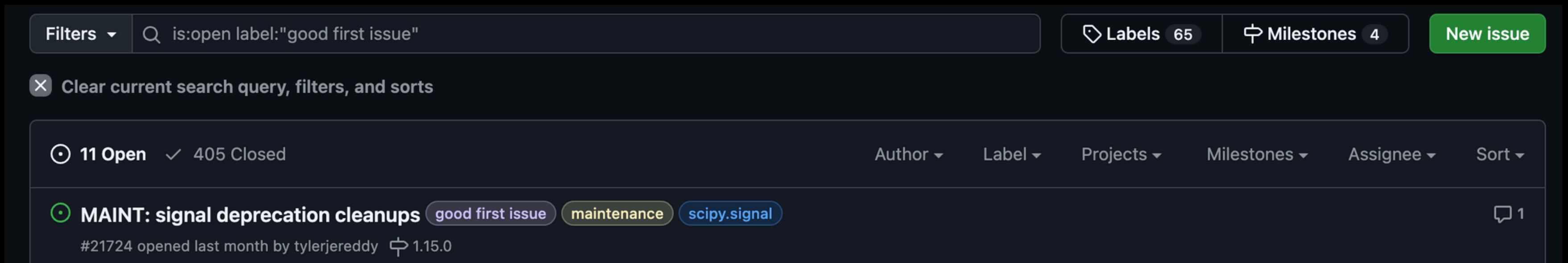
1. Learn Git
2. Go through the list of organizations and pick top 3
3. Start communicating with them, attend their open-to-all meets, etc.
4. Get a basic idea of the tech stack they use
5. Pick out a “Good first PR” from their GitHub
6. Start contributing!

Good first
issue for
SCIPY



Do I need to know their entire tech stack?

NO. Just know the basics, and start.



The screenshot shows a GitHub search interface with the query 'is:open label:"good first issue"'. The results show 11 open issues and 405 closed issues. The first issue is 'MAINT: signal deprecation cleanups', which is labeled as a 'good first issue', 'maintenance', and 'scipy.signal'. It was opened last month by tylerjereddy and is related to version 1.15.0. The interface includes filters, a search bar, and a 'New issue' button.

Filters Labels 65 Milestones 4 [New issue](#)

Clear current search query, filters, and sorts

11 Open ✓ 405 Closed Author ▾ Label ▾ Projects ▾ Milestones ▾ Assignee ▾ Sort ▾

MAINT: signal deprecation cleanups [good first issue](#) [maintenance](#) [scipy.signal](#) 1

#21724 opened last month by tylerjereddy [1.15.0](#)

How to choose an organization?

- In Google Summer of Code (**GSoC**), an **organization** refers to an open-source community or project group that participates in the program as a mentor organization. These organizations guide and mentor students during their GSoC projects.
- They put up suggestions/ideas for potential GSoC projects as well
- Go through list of organizations on the official GSoC page
- Choose top 3 based on your interests and/or tech stacks you know
- Check how frequently they have been selected as an organization
- Popular organizations will have more competition, but the work will be better
- Underrated organizations will have less competition, but might have less chances of getting selected as an organization.

How to choose a project?

- Once you have shortlisted organizations, go through the work they have done previously
- Go through their good first issues
- Communicate with the members of the organization



What is a good proposal?

- One that clearly explains the problem statement and the steps you will follow to solve the problem
- Background, deliverables, timeline
- Why did you choose the project?
- Why should Google choose you?
- Why should the organization choose you?
- How familiar are you with their codebase?
- Communication history
- Merged Pull Requests (ideally should have merged at least 1 at the time of proposal submission)
- Have a draft ready early (1-2 weeks)
- The first draft is always bad
- Draft reviewed by seniors, mentors, members of the Organization
- **Rejections** - for being clearly AI written, for not having/showing a clear step-by-step idea of the solution they want to implement
- DO NOT do it last minute.



General Advice

- Document all merged PRs properly
- Start early
- Communicate with the organization
- Be Clear About Time Management
- Be open to feedback





Thank you!

