GSoC and Outreachy
in Fedora

Presented by
Jona Azizaj
Fedora Ambassador

Google Summer of Code 2018

What is Google Summer of Code?

Google Summer of Code (GSoC) is a global program that matches students up with open source, free software and technology-related organizations to write code and get paid to do it!

Why Should you Apply?

→ An absolutely amazing learning experience

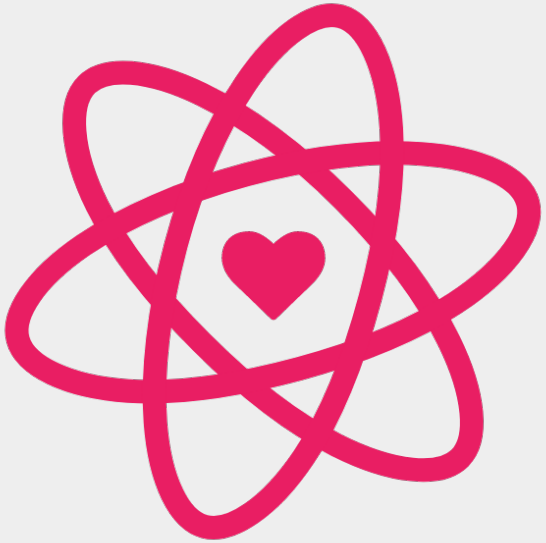
→ Sense of achievement

→ Hone your developer skills

→ Getting involved and building your network

→ Your spring-board to the open source world

-> For the love of code



-> The stipend, the fame and the t-shirt

Am I good enough?

The soft skills

- You find out where to go for help with technical questions
- You take and respond well to feedback
- You can work independently
- You know when to ask questions

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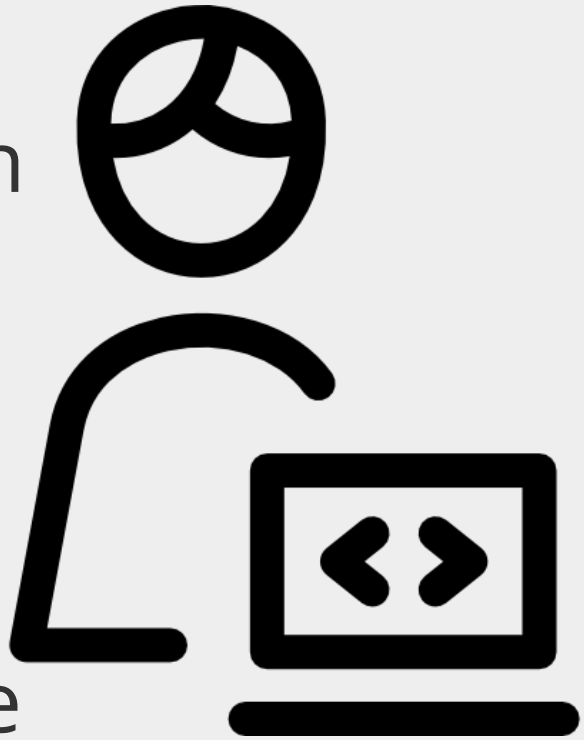
Do you think you already know everything about everything in the world of open source programming?

Then you probably aren't good enough for GSoC!

The technical stuff

- You can install and configure software packages on your own
- You have access to a functioning computer 40 hours a week
- You've got experience using the programming language and operating system of the project



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Pro Tip: Don't be afraid to apply to projects where you only meet 51% of the listed requirements.

Making First Contact

Community interactions

- Join mailing lists
- Read the mailing list archives
- Join the projects IRC channel

  and lurk for a bit
- Read all the available information on past GSoC projects
- Take a stab at going through the project documentation, at least to the point where you feel like you can ask questions that are not already extensively covered in the docs

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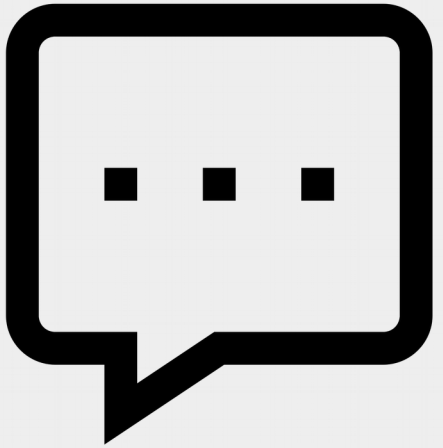
At the end of your
“listening and research” phase
you’ll understand how, where and when the community interacts and know the best way to ask questions.

How to begin participating in conversations?

- Introduce yourself!
- Ask questions
- Be humble
- Don’t be intimidated



>>Engage<<

with multiple communities once the participating organizations are chosen to get a feel for how different groups work.

Choosing an Organization!

Two important questions

- Who Am I?
- Who are they?

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Who am I?

- What open source software do you use?
- What are your professional interests?
- What are your hobbies?
- What is your skill set?
- What do you want to get out of GSoC?

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Who are they?

- compile a list of organizations based on your answers above
- take some time to learn more about what they do (i.e., Google them!)
  - the organization's mission, it's size etc
- browse the list of project ideas for each of the organizations for which you are interested

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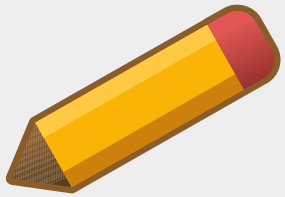
Pro Tip: The earlier you apply, the better. Submitting your proposal early helps you get early feedback.

Writing a proposal



The Basics

- Make sure you meet Google's formal requirements for participation in Summer of Code
- Inventory your time - GSoC should be treated as a full-time job
- If you are not sure you will have good Internet connectivity continuously over the summer, GSoC is not for you
- If you are less than fluent in the programming languages that your target organization uses, you might want to skip the work of writing an application

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Elements of a Quality Proposal

- Name and Contact Information
- Title
- Synopsis (short summary)
- Benefits to Community
- Deliverables - Include a brief, clear work breakdown structure with milestones and deadlines.
- Related Work
- Biographical Information
- Follow the Rules

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Submit a Draft Proposal early

Submitting a Final PDF Proposal

Student Application Period

March 12 - 27, 2018

Outside the Project List

- Projects without a mentor
- Projects that better belong with other Summer of Code organizations
- Projects that represent too large a scope
- Incoherent proposals
- Projects that are “inappropriate” for legal or social reasons
- Boring projects
- Stuff that’s already been done to death

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Being Turned Down

Keep trying!

“Never give up. It took me 3 years and 12 proposals to finally get into the program. If none of your proposals gets accepted, sit back and relax. You have a whole year ahead to improve your role with the open-source community by writing more code.”

Kamran Khan, Ubuntu, GSoC Student 2010

GSoC – student guide

https://google.github.io/gsocguides/student/

Make your first steps in Fedora

What is Fedora?

Fedora is an operating system based on the Linux kernel, developed by the community-supported Fedora Project and sponsored by Red Hat.

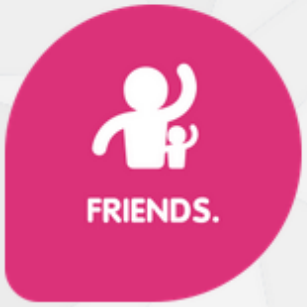
Our mission

Fedora creates an innovative platform for hardware, clouds, and containers that enables software developers and community members to build tailored solutions for their users.

What is Fedora all about?

The Fedora community includes thousands of individuals with different views and approaches, but together we share some common values. We call these the “Four Foundations”:

Freedom, Friends, Features, and First.



Fedora is always free for anyone to use, modify, and distribute. It is built and used by people across the globe who work together as a community: the Fedora Project.

Who We Truly Are

Photo by Joe Brockmeier, CC BY-SA 2.0.

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Quick Steps to Join

- Start by creating a Fedora account. See join.fedoraproject.org
- Find a team or project you're interested in. Join their mailing list and send an introduction e-mail. Then start working on something.
- Keep up with the latest news around Fedora.
- Don't be afraid to ask questions!

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Whatcanidoforfedora.org

Join the community!

Click on a role in which you are interested to contribute

Content Writer

* Writing.

* Editing.

* Explaining complex ideas.

Designer

* Design.

* Usability.

* Interaction.

People Person

* Event organization.

* Customer service/support.

* and more...

OS Developer

* Programming.

* RPM/Packaging.

* Bugfiling.

Translator

* English.

* Non-English native language.

* Translation tools.

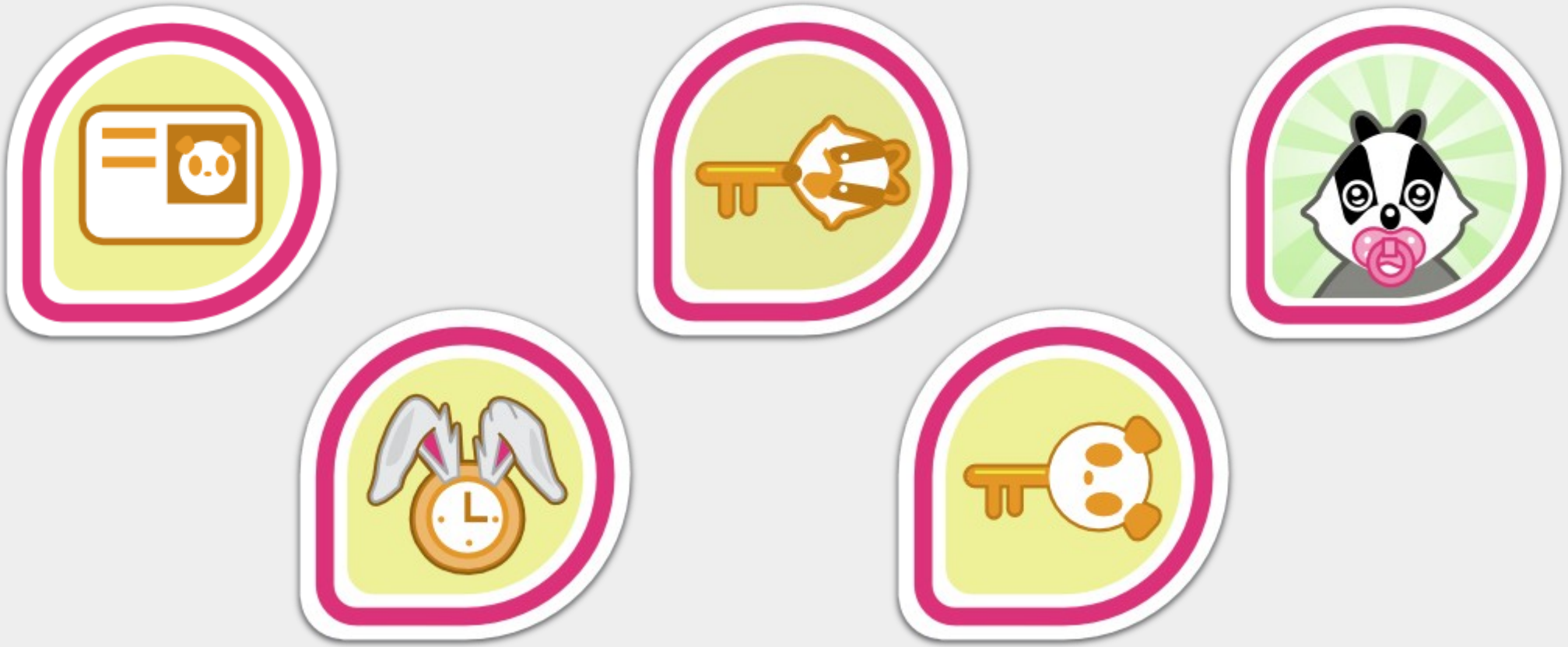
Web Developer or Administrator

* Python.

* Web app development.

* Linux system administration.

Start with Fedora Badges



Read the docs.

Check out the Release Notes for detailed information on the current release. To learn more about using Fedora and details such as system requirements, see the **official documentation**.

Get help.

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Need some help with Fedora? Check out Ask Fedora, where you can read archives of questions from other users, or ask your own question.

DOWNLOAD

- Get Fedora Workstation
- Get Fedora Server
- Get Fedora Atomic
- Fedora Spins
- Fedora Labs
- Fedora ARM®
- Alternative Downloads

SUPPORT

- Get Help
- Ask Fedora
- Common Bugs
- Fedora Developer Portal
- Installation Guide

JOIN

- Join Fedora
- Planet Fedora
- Fedora SIGs
- Fedora Account System
- Fedora Community

Project ideas

- Improve GPIO support in Fedora in general and particularly on the Raspberry Pi
- Improve Fedora Android App - UI/UX Research and Design
- Improve Fedora Android App - Backend
- Metrics : fedmsg plugin for perceval
- Pagure: A git based source repository
- ASP.NET Core web application for /r/Fedora subreddit and Discord.
- Fedora Packets: Fedora Happiness Packets
- Atomic IoT (likely useful in numerous other Atomic ideas) host upgrade daemon
- Fedora Dockerfile linter leveraging Container Best Practices
- Advanced test cases for images running in OpenShift using conu
- Complete support for OpenShift and Kubernetes as a backend in conu
- Open Ideas From Previous Years
- Continuous Integration for Fedora Media Writer + Tests
- ARM uBoot Support in Fedora Media Writer

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Communication

- **Mailing List (GSoC-related):** summer-coding@lists.fedoraproject.org
- **Mailing List (Technical):** devel@lists.fedoraproject.org
- **IRC:** #fedora-summer-coding or #fedora-devel on Freenode

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Fedora Packets: Fedora Happiness Packets

- **Difficulty:** Intermediate – Expert
- **Technology:** Python, HTML/CSS/JS, knowledge of fedmsg optional: Cloud / Ansible, UI UX skills graphic design
- **Summary:** Add Fedora user account authentication and fedmsg integration to Happiness Packets to deploy in Fedora's infrastructure

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Primary deliverables

- Add back-end support for Ipsilon authentication
  - Push the application upstream
- Integrate fedmsg publishing
- Create Fedora Badge rule file to automatically award badges

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Secondary deliverables

- Add support for video messages
- Add support for emojis
- Explore major social media APIs (for example, Twitter, Facebook, Reddit) to allow sharing on social networks
  - Twitter
  - Facebook

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More info:

https://docs.fedoraproject.org/mentored-projects/gsoc/2018/ideas.html

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Fedora and Outreachy

Outreachy internships

are open internationally to women (cis and trans), trans men, and genderqueer people. Internships are also open to residents and nationals of the United States of any gender who are Black/African American, Hispanic/Latin@, Native American/American Indian, Alaska Native, Native Hawaiian, or Pacific Islander.

Outreachy

gives **three-month** paid internships for persons that are underrepresented in tech. Interns are paid a stipend of $5,500 and have a $500 travel stipend available to them.

How to apply:

- Make sure you're eligible to apply for Outreachy
- Pick 1-2 projects
- Make small, consistent contributions to the project(s) you've chosen
- Record in-progress contributions on the Outreachy website
- Complete your final application

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Start your application at least 2-3 weeks before the Outreachy **application deadline (22 March)**!

Why Apply to Outreachy?

Prathiksha
@prathiksha0105

I reaaaaally don't want my @outreachy internship with @mozilla to end. The last 2 months were incredible. 💙

4:53 AM - Aug 11, 2017

29 See Prathiksha's other Tweets

Urvika Gola
@UrvikaGola

The amount of knowledge I've gained as an OpenSource developer being an @outreachy Intern + the conviction is something Ill cherish forever! twitter.com/outreachy/stat…

2:25 PM - Aug 23, 2017

19 See Urvika Gola's other Tweets

Princiya 👧
@princi_ya

Cannot recommend this program enough. Definitely worth participating.. Thank you @outreachy for the best 3 months twitter.com/outreachy/stat…

Joannah Nanjekye
@Captain_Joannah

Some update on my amazing @outreachy journey. Really learning and great mentorship from @Ceph mentors. nanjekyejoannah.github.io/outreachy-week…

8:23 AM - Jun 30, 2017

Outreachy With Ceph - Week 3 and 4
Multi Language S3 Testing - Go TestSuite
nanjekyejoannah.github.io

3 See Joannah Nanjekye's other Tweets

vkmc
@vkmc

Started as a mentee, continued as a mentor. I've seen really great talent grow thanks to this program. Please consider applying! twitter.com/outreachy/stat…

8:43 PM - Aug 22, 2017

46 17 people are talking about this

Outreachy Internships @outreachy 23 Aug

Outreachy alumni: If a friend was thinking about applying to @outreachy, what would you say to convince them to apply?

Mansimar Kaur
@mkaur1102

I'd tell them it was the best experience of my life, made me realize my love for Software & made me overcome impostor syndrome.

11:41 PM - Aug 27, 2017

17 See Mansimar Kaur's other Tweets

Get the most out of your Outreachy Intern application process

- You Start Early → not procrastinate till like a week before the deadline
- Narrow down your project choices to two at the most
- Set your goals
- Engage with the community and project Mentors frequently
- Focus on progress not perfection
- Remember the process is much more important than the outcome

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Fedora project #1

Build a fedmsg plugin for perceval - a data gathering metrics tool

- Python experience (required)
- Python libraries such as requests, urllib, etc (preferred)
- Understanding of HTML, JSON, Parsing (Nice to have)
- Beginner tasks: https://pagure.io/fedmsg-perceval-plugin

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Getting into Summer of Code Programs!!!

Tips:

- Read what is already there and Ask what is not!
- I am not a good programmer/coder can I try?
  - In simple words, Yes.
- Choosing project/organization
  - Yes, it is immensely important! You should choose a project for which you have deep passion.
- Don’t ask to ask, Just ask
  - There is nothing like a stupid question
  - “If you ask a question it makes you look stupid for 5 minutes – but if you don’t ask – you stay stupid for fifty years”, so always ask questions in your life.

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Tips:

- Community matters a lot
  - Keep remember ‘The More Eyes, The Better!’.
- One Secret :)
  - First thing, Forget the Fear of Failure!
  - If you deadly want it, you will put huge efforts in it and will make it possible!
- Good luck! ☘ 🤞🤞🤞

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Questions?

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jona@azizaj.com