



Coding Club  
IIT Guwahati



<PRESENT>

# CODE PEAK

CONTRIBUTE YOUR WAY TO THE TOP

<Student's Guide>

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# <CODE PEAK 2021>

Code Peak is a month-long programme conducted by Coding Club IIT Guwahati and NJACK IIT Patna that helps students understand the paradigm of Open Source contribution and gives them real-world software development experience. The event targets first-timers who wish to participate in Free and Open Source(FOSS) Contributions and the experienced developers who want to show their skills by contributing to real-world projects.

The programme follows a mentor-mentee format where we select mentors who bring their own projects to which the participants can contribute keeping the spirit of Open Source in mind. The main aim of the entire event is to lay a foundational base and promote the culture of Open Source in India and prepare them for potentially larger Open Source Events at a global level.

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# <Major Goal of Code Peak'21>

Inspire young developers to get involved in Open Source software development.

Help students to master the development workflow of Git and GitHub.

Connect with the mentors on the campus, help them be in contact even after the program ends.

Prepare for other Open Source programs like Google Summer of Code, Outreachy, Summer of Privacy, etc. See an elaborated list [here](#).

Get hands-on experience with new tech stacks and frameworks under the guidance of the mentor.

# <Why should I apply?>

Well, now you've known that CodePeak seems like something productive to do this December. But shouldn't I just go on a trip or sleep my way through the vacations? Well here are some of the reasons why you should apply for it

## **Work Experience**

Code Peak is a place where you not only get to use your current skill set on existing projects, but you are definitely going to hone them. The feeling of working in collaboration is one important skill set that probably is going to be new to you. On the other hand, the mentors of the projects themselves have recently been through what you would be going through while creating your first code patch. So, you get to be patient while working on the small fixes and managing the git workflow.

## **Acquiring New Skill Sets**

While you'll be adding your piece of code to the existing piece of software, you will get to learn the structure of the software and more about the process of creating it from scratch. That, in the future, will help you in creating your own software.

## **Building Your Network**

Code Peak is a place where you not only get to use your current skill set on existing projects, but you are definitely going to hone them. The feeling of working in collaboration is one important skill set that probably is going to be new to you. On the other hand, the mentors of the projects themselves have recently been through what you would be going through while creating your first code patch. So, you get to be patient while working on the small fixes and managing the git workflow.

## **Sense of Achievements**

It feels really great to have your first patch submitted. It feels like an achievement when your contribution goes online and is ready to be helpful to other folks throughout the world.

## **Mock for GSOC**

Many of the mentors of Code Peak have been selected in Google Summer of Code before, both as students and as mentors. If you wish to apply for GSoC in the summers, Code Peak is probably one of the best things going to happen with you in December.

## **For the love of open source**

For The Love Of Code And Open Source. If you love to code and it relates even distinctly to your passion, then simply express that love, by being a part of the Code Peak!

# <Am I good enough?>

The projects are intended to be beginner-friendly, so there is no reason for you to shy away. We assure you that the mentors will help you in each step, and in the end, you will emerge as a better developer. This simply rules out myths like first years are not meant for it. The skills you need to be a part of it are :

## **Communication Skills**

You will have to speak up. You will have to mail it to the project mentor. You will have to submit your query to the mentor in case of any issue or facing difficulty in understanding anything. As long as you are able to express yourself, there is nothing to stop you from achieving it.

## **A Working Laptop / PC With Internet Throughout The Program**

Most of the time, you will be coding and pushing your code online. This requires you to have a computer and a working internet connection with you.

Don't be afraid if you don't have a Linux / Ubuntu operating system. Your mentor is there to help you out. :-)

# <How to apply>

## **Registration**

Navigate to the Registration Tab of the Code Peak website and fill the form to register as a student.

## **Leaderboard**

The leaderboard which displays all the activities by registered students would be live on the Code Peak website. Basically, it represents the activity board of each and every student registered in Code Peak.

## **Making Contact**

The contact details of each mentor will be available to you on the projects list. It is simple enough to understand that the details are public for no one other than you. So, you have every right to contact the mentor and ask for help on the project. At the same time, we do hope that the participants be polite while making contact.

One should realize that after all, the mentors are students themselves, and they might not always be available at a moment's notice. Ideally one should wait for at least a day for the mentor's reply.

# <Coding Period>

## **Joining Github**

Sign Up on GitHub. Choose a username for you, and voila! You've met the first requirement of being a part of Code Peak. Share your username with us!

## **Choosing A Project**

First of all, you can choose as many projects as you want. It's not about doing everything on just one project, but solving as many issues as you can, and contribute as much as you can. Navigate over to the Code Peak website and hunt down projects by their description. All of the projects must be on GitHub.

## **Adding Your Own Project**

Code Peak is about to work on Open Source in December. In case you did not like any of the projects listed, contact us at [codepeak2021@gmail.com](mailto:codepeak2021@gmail.com). Tell us about the project you're working on, that will count as a valid contribution in Code Peak as well, given that the project is not trivial enough and is approved by us.

## **Coding Style**

Almost all languages have a definitive style guide for them. Putting correct indentation, obeying line lengths, etc. are the features that make the code more readable. Many of the projects follow Google Style Guide. You should work with your mentor about the code styling.

## **Software Development**

Develop the project codebase. Write up test suites. Add third-party integrations and lots of other cool stuff depending on your project. After cooking up the perfect recipe, use Git to keep track of the changes and create your Pull Requests on GitHub. Fix as many issues as you can and add as many new features as possible to the project. Remember to not add commits just for the sake of points, but to actually enhance the projects. Communicate with your mentor about further requirements and/or improvements.

## **Writing Documentation**

The code that you have added must be documented thoroughly. Open source is about writing code that humans can read and understand. Without documentation, it is so hard to read any code. You can add information in the README, supply proper comments against your code and use sensible variable and function names. Ask the mentor to help you out with it if you feel your documentation is lacking.

# <Incentives>

- Certificate Of Appreciation by Code Peak'21 to all participants.
- Geeks for Geeks Coupon Worth Rs 300 to all participants
- Six Months Voiceflow Subscription Worth \$240 to all participants
- Top performers will get Code Peak'21 goodies.
- Top performers will exclusively get free access to online courses/competitions offered by Coding Club IITG and NJACK IITP.
- Top 10 students will be featured in Our monthly magazine - Debugged editions!
- Top 10 students will be featured on our social media handles.

# <Contact us>

**FOR MORE DETAILS  
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