



Proposal for Google Summer of Code-2018

Organisation- JGraphT

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REQUESTED BY-

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>About me-

>Personal Details:

Name: Siddhant N Trivedi

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India.

Nationality: Indian

Continent: Asia

Time Zone: GMT+5:30

>Educational Background:

- Completed Class X under Indian Certificate of Secondary Education(ICSE) Board from St.Lawrence School, Unnao from Science Stream with 96.8% Marks.
- Completed Class XII under Indian School Certificate(ISC) Board from St.Lawrence School,Unnao from Science Stream(P,C,M,CS,English) with 92.5% Marks.
- Pursuing B.Tech in Information Technology (2017-2021) from Jaypee Institute of Information Technology,NOIDA.Currently, in second semester of First Year.



>Relevant Working Experience:

- Participated in the Google Developers Group, Jaypee Institute of Information Technology, NOIDA's Hackathon titled 'DEVFEST 2k17' and made a website for the students from where they can get links to useful ebooks, video resources and even a mentor for improving their academics and faring well in exams.
- Participated in the Mini-Tech Fest of IEEE Student Branch,JIIT titled as 'XENITH 2k17' and made a healthcare webapp for calculation of BMI and finding optimum weight loss tips for everyone.
- Regularly participate in various programming and coding competitions organised at sites like Hackerearth,Kaggle and Hackerrank.

>Past Research and Programming Projects:

- Website by our team 'Phoenix' for the 'DEVFEST 2k17'- PadhoPadhao.com

>Familiarity with Programming Languages and Frameworks:

- **Programming Languages:** JAVA, C, Python(Basic), Ruby, Javascript+Jquery.
- **Markup Languages:** HTML , CSS.
- **Frameworks:** Rails, Bootstrap.
- **Tools:** Git, Vim, Eclipse IDE, Linux Shell, Sublime Text, Atom Text Editor..

- Learnt JAVA as the Computer Science course for classes IX, X, XI,XII in the school.
- Bagged First position in batch in CS with 99/100 marks in both X Board Exams as well as XII Board Exams.
- Currently, learning Ruby on Rails framework for the development of WebApps and also Javascript for creating websites with better front-end part.



>Reference to my Projects:

- My Github Repository: [sidntrivedi012](#)
- A website 'PadhoPadhao.com' developed by our team in a hackathon organised by GDG,JIIT,NOIDA.- PadhoPadhao
- My certificate for completing successfully the evaluations of Kharagpur Winter of Code organised by Indian Institute of Technology,Kharagpur.
- My Kharagpur Winter of Code Report after the final evaluations.

>Projects I would like to work on:

While scrolling and finding an organisation to which I can contribute, I found JGraphT the most suitable for me as firstly it was based on JAVA and secondly, it also had some issues related to Web Development.Thus,I forked the repository and started to read the list of ideas. While going through the various ideas,I chalked out the following projects on which I would love to work on:

1. [Graph Drawing Algorithms](#)
2. [Graph Generators & Named Graphs](#)
3. [Website Redesign and Improvements](#)
4. A WebApp where a user can choose the type of graph and