

Swapnil Negi

COMPETITIVE PROGRAMMER · SOFTWARE DEVELOPER

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Education

Indian Institute of Technology Roorkee

B.TECH. ELECTRONICS AND COMMUNICATION ENGINEERING

- Cumulative Grade Point Average, CGPA: 8.576/10

Roorkee, India

July 2016 - PRESENT

Achievements

- | | | |
|------|--|-------------------|
| 2018 | 11th Place , ICPC Gwalior Onsite Team: Squirtle Squad | Gwalior, India |
| 2018 | 34th Place , ICPC Amritapuri Onsite Team: Squirtle Squad | Amritapuri, India |
| 2017 | 56th Place , ICPC Chennai Onsite Team: bonelessPi77a | Chennai, India |
| 2018 | 411th Place , Facebook Hacker Cup Round 2; selected 1415 participants; Qualification Round (8216 participants); Round 1 (3714 participants) | Online |
| 2019 | 16th Place , 3 Address Code Hackathon Online Round; 3391 participants | Online |
| 2019 | 26th Place , 3 Address Code Hackathon Onsite Finals; selected 200 participants | Gurugram, India |
| 2017 | 111th Place , CodeVita 2017; 99473 participants | Online |
| 2016 | All India Rank 1111 , Joint Entrance Exam Advanced; selected 200,000 candidates | India |
| 2016 | All India Rank 710 , Joint Entrance Exam Mains; 1.5 million candidates | India |

Skills

- | | |
|--------------------|---|
| Programming | Python3, C++, Java, PHP, C# |
| Web | HTML5, CSS, Javascript |
| Frameworks | Laravel, Yii2, Django, React.js, ASP.NET |
| Utilities | Git, Linux-Shell, Vim, Visual Studio, MySQL |

Projects

User Flow Analyzer

SOFTWARE ENGINEER INTERN | MICROSOFT

Bengaluru, India

May. 2019 - Jul. 2019

- Built an interactive stand-alone web portal for analyzing the user behaviour, based on logged telemetry, in any Azure Portal Extension using directed graphs and a customized dashboard to highlight successful user-flows, bottlenecks, and make data-driven decisions.
- Created algorithms to select and highlight the actions and transitions to be displayed as a graph, highlight major user-flows, display the most-used and the least-time consuming paths for any action as well as provide insights about any customized user-flow.

Google Summer of Code 2018

STUDENT DEVELOPER | GNU RADIO (LINK)

India

Apr. 2018 - Aug. 2018

- gr-modtool is a tool that automates the monotonous work of writing the boilerplate code while developing a module.
- The aim of the project was to make the tool Py3K compatible, rewrite it as a plugin architecture, expose a Python API for it, create a python based GUI, create a YAML generator, add a feature for the conversion of XML scripts to YAML, and write proper unittests for the tool.

Forminator - Information Management Group, IIT Roorkee

DEVELOPER & MAINTAINER

Roorkee, India

Aug. 2017 - Present

- A Data Management platform that allows creation of forms and collection of data.
- Allows the creator to choose and limit target audience by logical combinations based on various campus level attributes of students.

TripSched - Rajasthan Hackathon 3.0

DEVELOPER (LINK)

Udaipur, India

Dec. 2017

- TripSched is a tourism app that uses an intelligent scheduling algorithm to plan a trip for the user maximizing his happiness.
- The application takes into account various factors like rating of the place, opening and closing time of place, time required to reach the place, time spent at the place, time required to reach the next place.

Extracurricular Activities

Information Management Group (IMG)

IIT Roorkee

MANAGEMENT LEAD OF PROJECTS

Jan. 2017 - PRESENT

- Involved in developing and maintaining the college intranet applications portal, Channel i, as well as the college official website.
- Created the Branch Change Script in correspondence with the administrative policies for the branch change of students of IIT Roorkee.
- Conducted several workshops and lectures on software development, PHP frameworks, and command line interfaces.
- Manage the project status of group of 50 developers and designers.

Programming and Algorithms Group (PAG)

IIT Roorkee

PROGRAMMER

Aug. 2017 - PRESENT

- Involved in organizing programming contests on a global scale.
- Delivered lectures on number theory, probability theory, graph theory and dynamic programming.
- Made questions for mathematics contests on Erdos, an application for math geeks, and Codevillage, a competitive programming platform.

Miscellaneous

- Active on various competitive programming platforms like **Codechef**, **Codeforces**, and **Atcoder**. Currently India Rank 198 on Codeforces and India Rank 545 on Codechef. (handle: swapnil07)
- Created successful submissions in several Hackathons including Microsoft code.fun.do 2017 and 2018, Rajasthan Hackathon 3.0.