

# 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	<b>8th Place</b> , ICPC Gwalior Onsite   Team: Squirtle Squad	Gwalior, India
2018	<b>34th Place</b> , ICPC Amritapuri Onsite   Team: Squirtle Squad	Amritapuri, India
2017	<b>56th Place</b> , ICPC Chennai Onsite   Team: bonelessPi77a	Chennai, India
2018	<b>411th Place</b> , Facebook Hacker Cup Round 2; selected 1415 participants; Qualification Round (8216 participants); Round 1 (3714 participants)	Online
2019	<b>16th Place</b> , 3 Address Code Hackathon Online Round; 3391 participants	Online
2019	<b>26th Place</b> , 3 Address Code Hackathon Onsite Finals; selected 200 participants	Gurugram, India
2016	<b>All India Rank 1111</b> , Joint Entrance Exam Advanced; selected 200,000 candidates	India
2016	<b>All India Rank 710</b> , Joint Entrance Exam Mains; 1.5 million candidates	India

## Skills

<b>Programming</b>	Python3, C++, Java, PHP, C#
<b>Web</b>	HTML5, CSS, Javascript
<b>Frameworks</b>	Laravel, Yii2, Django, React.js, ASP.NET
<b>Utilities</b>	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**.
- Displayed most-relevant Azure Extension information as a graph, highlighted major user-flows, displayed the most-used and the least-time consuming paths for any action as well as provided insights about any customized user-flow.

### Google Summer of Code 2018

STUDENT DEVELOPER | GNU RADIO (LINK)

India

Apr. 2018 - Aug. 2018

- Upgraded the tool, gr-modtool, that automates the monotonous work of writing the boilerplate code while developing a module.
- Made the tool Py3K compatible, rewrote it as a plugin architecture, exposed a Python API for it, created a Python based GUI for it, created a YAML generator, added a feature for the conversion of XML scripts to YAML, and wrote proper unittests for it.

### Forminator

DEVELOPER & MAINTAINER | INFORMATION MANAGEMENT GROUP, IIT ROORKEE

Roorkee, India

Aug. 2017 - Present

- Created a data management platform that allows creation of forms and collection of data.
- Made the feature to choose and limit target audience by logical combinations based on various campus level attributes of students.

### TripSched

DEVELOPER (LINK) | RAJASTHAN HACKATHON 3.0

Udaipur, India

Dec. 2017

- Built a tourism app that uses a 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, and 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

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- Competitive Programming: Active on various competitive programming platforms like **Codechef**, **Codeforces**, and **Atcoder**. Currently India Rank 172 on Codeforces and India Rank 545 on Codechef. (handle: swapnil07)
- Hackathons: Created successful submissions in several Hackathons including Microsoft code.fun.do 2017 and 2018, Rajasthan Hackathon 3.0.
- Open-Source: Member of the open-source organization **GNU Radio**; Attended **FOSDEM 2019**, Brussels.