

# Swapnil Negi

Software Development Engineer  
Microsoft

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## Education

*JUL'16 - JUL'20*

B.Tech. Major: ECE, Minor: CSE  
IIT Roorkee  
CGPA : 8.618/10

## Profile Links

LinkedIn: [swapnil07](#)

Github: [swap-nil7](#) (GSoC '18)

Codechef: [swapnil07](#)

Max Rating: 2276 (Orange, 6 Star)  
Best: 28th (Aug Cook-Off, Div.1)

Codeforces: [swapnil07](#)

Max Rating: 2131 (Orange, Master)  
Best: 56th (Round #511, Div.2)

## Skills

### Languages

C/C++, Python, Java, Javascript,  
Typescript, PHP, C#

### Frameworks

Django, Laravel, Yii2, ASP.NET,  
Flask

### Software Packages

Git, Linux, Vim, CMake, Docker,  
Visual Studio, Sublime Text

## Achievements

### ICPC 2018-2020

- 21st Rank: Asia West Continental Finals '20
- 16th Rank: Amritapuri '19
- 10th Rank: Online Qualifier '19
- 8th Place : Gwalior '18
- 34th Rank: Amritapuri '18

### Contest Ranks

- 18th Rank: CodeAgon '19
- 18th Rank: GS Quantify '19
- 16th Rank: 3 Address Code Online Qualifier '19
- 135th Rank: Google Kickstart Round E '19
- 411th Rank: FB Hacker Cup Round 2 '18

### Hackathons

- Microsoft Code.Fun.Do 2017 & 2018, Rajasthan Hackathon 3.0

## Experience

### Microsoft, Azure Stack Edge | Software Engineer

July'20 - Present

- Currently working on the Kubernetes and IoT services of the Azure Stack Edge portal extension.

### Newton School | Lead Problem Setter

Nov'19 - Present

- Responsible for creating and reviewing programming problems for monthly public contests having more than 15,000 registrations.

### Microsoft, Azure Portal | Software Engineer Intern

May'19 - July'19

- Built an interactive web-portal for analyzing the most and the least used user flows, based on logged telemetry, in any Azure Portal Extension.
- Optimized the graph generation time and the time to analyze any particular user flow by implementing various Data Structures and Algorithms.

### GNU Radio | Google Summer of Code Student

Apr'18 - Aug'18

- Made the tool, gr-modtool, extensible by rewriting it as a plug-in architecture and making it python version independent.
- Enhanced the utility of the tool by exposing an API and creating a GUI for the tool.

## Projects

### Branch Change Script, IIT Roorkee | Developer

Dec'18 - Dec'18

- Created the official branch change script for the branch change of first year students of IIT Roorkee in correspondence with the administrative policies.

### Forminator, IIT Roorkee | Developer and Maintainer

Aug'17 - Apr'18

- Created the official data management platform of IIT Roorkee that allows creation of forms and collection of authentic data.
- Implemented the feature to limit target audience by logical combinations based on various campus level attributes of students.

## Leadership

### Member | GNU Radio Organisation

Feb'18-Present

- Responsible for maintaining and upgrading gr-modtool.
- Attended FOSDEM 2019, Brussels to represent GNU Radio.

### Management Lead | Information Management Group

Apr'19-Apr'20

- Held the responsibility for managing the projects of IMG IITR, a student technical group of 50 developers and designers aimed at developing scalable applications to support approximately 10,000 campus students and faculties.

### Programmer | Programming and Algorithms Group

Aug'17-Apr'20

- Held the responsibility for creating and reviewing problems for math contests on Erdos and programming contests on Codevillage.
- Delivered lectures on number theory, probability theory, graph theory and dynamic programming.