SWAPNIL NEGI

B.Tech. Electronics & Communication Engineering
UG(IV Year I Semester)
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Registration No: B.Tech./ECE/16116071/2020

Indian Institute of
Technology
Roorkee

Area of Interest

Software Development, Competitive Programming, Probability Theory

Education

Year	Degree/Examination	Institution/Board	CGPA/Percentage
2019	B.Tech. 3rd Year	Indian Institute of Technology, Roorkee	*8.576*
2015	Twelfth	Sainik School Ghorakhal, Nainital (CBSE)	*95.2 %*
2013	Tenth	Sainik School Ghorakhal, Nainital (CBSE)	*10.0*

Internships

Software Engineer Intern | Microsoft   13th May 2019 - 5th July 2019
- Built an interactive web-portal for analyzing user flow, based on logged telemetry, in any Azure Portal Extension.
- Displayed the most relevant information as a directed graph, highlighting major user-flows.
- Displayed all relevant paths for a particular action including most-used and least time-consuming paths.
- Provided an interactive graphical option for getting insights about any customized user-flow.

Google Summer of Code 2018 | GNU Radio   14th May 2018 - 6th August 2018
- Created a Python API and a Python GUI for gr-modtool along with detailed unittests, and a customized logger.
- Created a plug-in architecture for Command Line Interface along with the support for external plug-ins.
- Created a YAML generator as well as XML to YAML converter.

Projects

Forminator | Information Management Group, IIT Roorkee   August 2017 - November 2018
- Created a multi-featured survey tool for IITR with circumscribed access, custom groups, and authentic student info.
- Role: Developer | Tech Stack: PHP (Laravel), Javascript, Docker

Network Mapper | IIT Roorkee   August 2018 - October 2018
- A port scanner developed in python using scapy as a part of the course project.
- Tech Stack: Python (Flask), Scapy

Awards / Scholarships / Academic Achievements

- 8th position in ACM ICPC Gwalior Onsite Regionals 2018 | Team: Squirtle Squad
- 34th position in ACM ICPC Amritapuri Onsite Regionals 2018 | Team: Squirtle Squad
- 56th position in ACM ICPC Chennai Onsite Regionals 2017 | Team: bonelessPi77a
- 16th position in 3 Address Code Programming Contest.
- 10th position in India in August Cook-Off 2019 Division 1.
- Secured AIR 1111 in JEE Advanced 2016.
- Secured AIR 710 in JEE Mains 2016.

Skills

Computer languages   C++, Python , JavaScript, PHP, C#
Software Packages   Linux, Git, MySQL, VS Code, Django, Yii2, Laravel, ASP.NET
Minor/Honours Courses   OOPs, Data Structures, Computer Networks, Discrete Structures, DBMS

Positions of Responsibility & Extra Curriculars

Chief of Management | Information Management Group, IIT Roorkee   April 2019 - Present
- Responsible for developing and maintaining Forminator.
- Created the Branch Change Script for regulated branch change of students of IIT Roorkee.
- Responsible for managing the projects of IMG, including IITR Main Website and Placement Portal.

Member | Programming and Algorithms Group, IIT Roorkee   August 2017 - Present
- Responsible for creating and reviewing problems for math contests on Erdos and programming contests on Codevillage.
- Given lectures on Dynamic Programming and Probability Theory.

Member | Institute Web Management Committee, IIT Roorkee   July 2019 - Present
- Responsible for coordinating meetings with members of DWMC, Deputy-Director, IITR and media team, IITR.

Member | GNU Radio Organization   March 2018 - Present
- Responsible for maintaining and upgrading gr-modtool.
- Attended FOSDEM 2019, Brussels to represent GNU Radio.

Competitive Programming & Hackathons   February 2017 - Present
- Codechef: Max Rating-2208 (Orange), Global Ranks: 28 (Aug Cook-Off '19), 41 (Mar Lunchtime '19), 46 (Oct Cook-Off '18)
- Codeforces: Max Rating - 1943 (Purple), Global Ranks: 56 (Round #511), 144 (Round #577). (handle: **swapnil07**)
- Google Kickstart Round E '19 - Rank 135, Facebook HackerCup Round 2 '18 - Rank 411.
- Successful submissions: Rajasthan Hackathon 3.0(TripSched), Microsoft Code.Fun.Do 2017(Timetable Bot), 2018(Chargify)