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   23rd April 2018 - 14th 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 - April 2018
- Forminator is a multi-featured survey tool for IITR with circumscribed access and custom groups.
- Role: Developer | Tech Stack: Laravel, Javascript

RISC Processor | IIT Roorkee   July 2017 - October 2017
- Simulated a 16-bit RISC Processor as a course project for the course Computer Architecture and Microprocessors.
- Role: Developer | Tech Stack: Verilog, Xilinx

Map-It | IIT Roorkee   August 2018 - October 2018
- A port scanner developed in python using scapy as a part of course project.
- Tech Stack: 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
- 411th position in Facebook HackerCup Round 2.
- 26th position in 3 Address Code Hackathon Onsite Finals.
- 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

Management Lead | Information Management Group, IIT Roorkee   January 2017 - Present
- Responsible for developing and maintaining Forminator.
- 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 | GNU Radio   March 2018 - Present
- Responsible for maintaining and upgrading gr-modtool.
- Attended FOSDEM 2019, Brussels to represent GNU Radio.

Competitive Programming & Hackathons   February 2017 - Present
- Globally ranked under 100 in several programming contests on Codechef and Codeforces (handle: swapnil07)
- India Rank 172 on programming contests platform Codeforces.
- Developed TripSched, a trip scheduling application for Rajasthan Hackathon 3.0. Created successful submissions in Microsoft Code.Fun.Do 2017 and 2018.