Swapnil **Negi**

COMPETITIVE PROGRAMMER · SOFTWARE DEVELOPER

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Education

Indian Institute of Technology Roorkee *Roorkee, India*

B.TECH. ELECTRONICS AND COMMUNICATION ENGINEERING *July 2016 - PRESENT*

- Cumulative Grade Point Average, CGPA: 8.576/10

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 *Bengaluru, India*

SOFTWARE ENGINEER INTERN | MICROSOFT *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 *India*

STUDENT DEVELOPER | GNU RADIO (LINK) *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 *Roorkee, India*

DEVELOPER & MAINTAINER | INFORMATION MANAGEMENT GROUP, IIT ROORKEE *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 *Udaipur, India*

DEVELOPER (LINK) | RAJASTHAN HACKATHON 3.0 *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

- Competitive Programming: 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)

- 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.