

Swapnil Negi

COMPETITIVE PROGRAMMER · SOFTWARE ENGINEER

IIT Roorkee, Roorkee

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Education

Indian Institute of Technology Roorkee

Roorkee, India

B.TECH. ELECTRONICS AND COMMUNICATION ENGINEERING, MINOR IN COMPUTER SCIENCE AND ENGINEERING

July 2016 - Expected May 2020

- Cumulative Grade Point Average, CGPA: 8.584/10

Skills

Programming Python (Django), C++, Java, PHP (Laravel, Yii2), C# (ASP.NET), Javascript

Software Packages Git, Linux, Vim, Visual Studio, MySQL, CMake, Apache, Docker

Achievements

2020	21st Place , ICPC Asia West Continental Finals Team: memeset	Kolkata, India
2019	16th Place , ICPC Amritapuri Regionals Team: memeset	Bengaluru, India
2019	10th Place , ICPC Online Qualifier Team: memeset	Online
2019	18th Place , CodeAgon '19	Online
2019	16th Place , 3 Address Code Programming Contest Online Round	Online
2018	8th Place , ICPC Gwalior Regionals Team: Squirtle Squad	Gwalior, India
2018	34th Place , ICPC Amritapuri Regionals Team: Squirtle Squad	Amritapuri, India
2017	56th Place , ICPC Chennai Regionals Team: bonelessPi77a	Chennai, India
2016	All India Rank 1111 , Joint Entrance Examination Advanced	India
2016	All India Rank 710 , Joint Entrance Examination Mains	India

Experiences

User Flow Analyzer

Bengaluru, India

SOFTWARE ENGINEER INTERN | MICROSOFT

May 2019 - July 2019

- Built an interactive web-portal for analyzing user flows, based on logged telemetry, in any Azure Portal Extension.
- Optimized graph generation time by using various Data Structures and Algorithms.
- Provided insights about various flows for completing an action as well as provided feature for analyzing any custom user flow.
- Tech Stack: C# (ASP.NET), Javascript (React.js, vis.js), Azure Active Directory

Google Summer of Code 2018

Remote

STUDENT DEVELOPER | GNU RADIO (LINK)

Apr. 2018 - Aug. 2018

- Made the tool, gr-modtool, extensible by rewriting it as a plug-in architecture
- Enhanced the utility by exposing an API and creating a GUI for the tool as well by making the tool python version independent.
- Automated the testing of the tool by writing proper unit-tests, including the lint tests, for it.
- Tech Stack: Python, CMake, Qt

Forminator

Roorkee, India

DEVELOPER & MAINTAINER | INFORMATION MANAGEMENT GROUP, IIT ROORKEE

Aug. 2017 - Apr. 2018

- Created a data management platform 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.
- Tech Stack: PHP (Laravel), Javascript, Docker

Competitive Programming

CODECHEF | CODEFORCES | ATCODER

- Codechef: Max Rating-2276 (Orange), Global Ranks: 28 (Aug Cook-Off '19), 41 (Mar Lunchtime '19), 42 (Apr Cook-Off '20).
- Codeforces: Max Rating - 2131 (Orange), Global Ranks: 56 (Round #511), 144 (Round #577).
- AtCoder: Max Rating - 1789 (India Rank-56), India Ranks: 5 (ABC-164), 10 (ABC-138), 11 (ABC-168)
- Google Kickstart Round E '19 - Rank 135, Facebook HackerCup Round 2 '18 - Rank 411.

Hackathons

VARIOUS COMPETITIONS

- Rajasthan Hackathon 3.0 : Developed an application to schedule a trip by using location insights from the Google Maps API.
- Microsoft Code.Fun.Do '18 : Developed an application to locate nearby charging points at public and private locations.
- Microsoft Code.Fun.Do '17 : Developed a chat bot to maintain to-do list for the user, integrated with entity and intent recognition.

Leadership

Information Management Group, IIT Roorkee

[IIT Roorkee](#)

MANAGEMENT LEAD OF PROJECTS

Jan. 2017 - May 2020

- Responsible for managing the projects of IMG, a student technical group of 50 developers and designers, including IIT Roorkee Main Website and Placement Portal.
- Created the Branch Change Script for the branch change of first year students of IIT Roorkee in correspondence with the administrative policies.

Programming and Algorithms Group, IIT Roorkee

[IIT Roorkee](#)

MEMBER

Aug. 2017 - May 2020

- Responsible 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.

GNU Radio Organization

[Open Source](#)

MEMBER

Feb. 2018 - Present

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

Institute Web Management Committee

[IIT Roorkee](#)

MEMBER

Jul. 2019 - May 2020

- Member of the committee consisting of Deputy-Director IIT Roorkee, members of Departmental Web Management Committees, media team IIT Roorkee, and the student representatives.
- Conducted workshops on usage of Content Management System of IIT Roorkee Website for administrative representatives.