Swapnil Negi

COMPETITIVE PROGRAMMER · SOFTWARE DEVELOPER

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: 8.576/10

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

2019	**10th Place**, ICPC Online Qualifier	Team: memeset	*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.
- 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-2208 (Orange), Global Ranks: 28 (Aug Cook-Off '19), 41 (Mar Lunchtime '19), 46 (Oct Cook-Off '18).
- Codeforces: Max Rating - 1966 (Purple), Global Ranks: 56 (Round #511), 144 (Round #577).
- 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 - Present*

- 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 - Present*

- 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 - Present*

- 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.