

Swapnil Negi

Senior Software Engineer
Newton School

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Education

2016-2020
B.TECH. Major in ECE, Minor in CSE
IIT Roorkee
CGPA: 8.618 / 10

Links

Linkedin: **swapnil07**
Github: **swap-nil7**
ICPCID: **memeset**
Codechef: **swapnil07**
Codeforces: **swapnil07**

Ratings

Codechef: Max 2276 (Orange, 6-star)
Codeforces: Max 2131 (Orange, Master)

Skills

Programming languages
C/C++, Python, Java, Javascript,
Typescript, C#

Libraries & Frameworks
Django, Flask, React

Software & Tools
AWS, Git, Linux, Vim, Docker

Coursework

Data Structures and Algorithms
Object Oriented Programming
Operating Systems
Computer Networks
Computer Architecture
Database Management Systems
Probability Theory
Discrete Structures

Reference

Ben Hilburn
President, The GNU Radio Foundation, Inc.
Project Lead, GNU Radio
Email: bhilburn@gnuradio.org
Phone: 703.606.3326

Experience

Newton School | Senior Software Engineer

Feb'21 - Present

- Led the ideation and development of Newton Edge, a DSA learning platform with AI-based real time doubt solving in lectures and coding problems via chat interface. We reached an overall accuracy of 91% in all chat responses.
- Built an AI-powered mock interview product to automate DSA mock interviews. This involved assessment of coding questions subjectively and evaluating voice-based responses for theoretical questions.
- Built the entire backend architecture of Topic Tree, a learning management system that automates creation of lectures, assignments, in-class quizzes, contests, etc. It saves >50 human hours of effort per day with 0 inefficiencies.
- Automated the referral process by rating the students through their performance in assignments and mock interviews, and the companies through their job description and CTC.
- Optimised the APIs for CodeRush, a programming contest with >10k concurrent participants, to bring down the response time of certain APIs by >75%.

Newton School | DSA Problem Setting Team Lead

Nov'19 - Present

- Create and review competitive programming problems for monthly contest CodeRush (>6k active participants), and annual contest CodeRush-X (>20k active participants).

Microsoft, Azure Stack Edge | Software Engineer

July'20 - Present

- Built the cloud management for the Kubernetes and the IoT services of the Azure Stack Edge device.
- Built the landing experience for the cloud management of Edge services on Azure Stack Edge portal extension.

Microsoft, Azure Portal | Software Engineer Intern

May'19 - July'19

- Built an interactive web-portal for analyzing user flows, based on logged telemetry, in any Azure Portal Extension. The product could figure out multiple under-utilised product flows, and the major drop-off experiences in the most intended flows.

GNU Radio | Google Summer of Code Student [Link]

Apr'18 - Aug'18

- Made the tool, gr-modtool, extensible by rewriting it as a plug-in architecture and making it python version independent.
- Enhanced the utility of the tool by exposing an API and creating a GUI for the tool.

Projects

Clink | Co-Founder [Link]

Jun'23 - Jan'24

- Built the backend architecture of an interest based social media mobile application that supports all necessary functionalities including feed, messaging, profile, search, in-app and push notifications, etc.

GNU Radio Organisation | Member

Feb'18 - Present

- Responsible for maintaining gr-modtool, a part of the GNU Radio project.
- Attended FOSDEM 2019, Brussels to represent GNU Radio.

Achievements/Awards

ICPC Ranks 2018-2020:

- 21st - ICPC Asia West Continental Finals 2020
- 10th - ICPC Online Qualifier for all Indian Regionals
- 16th - Amritapuri Regionals 2019
- 8th - Gwalior Regionals 2018

Contest Ranks:

- Global Rank 28 (India Rank 10) in August Cook-Off Division 1, 2019
- All India Rank 5 in AIcing Programming Contest 2020, AtCoder
- All India Rank 18 in CodeAgon, 2019
- All India Rank 18 in Goldman Sachs Quantify, 2019
- Global Rank 135 (India Rank 47) in Google Kickstart Round E, 2019
- Global Rank 409 in Facebook HackerCup Round 2, 2018