

# ARPIT GUPTA

Junior, Indian Institute of Technology Roorkee

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## EDUCATION

### Indian Institute of Technology, Roorkee

📅 July 2017 – Present

📍 Uttarakhand, India

- Integrated B.Tech. in **Electronics and Communication Engineering**
- CGPA : 8.217/10

## INTERNSHIP

### Google Summer of Code 2019 | GNU Radio

📅 27th May 2019 – 19th August, 2019

- Created a python based tool (Blocktool) that can interact with GNU Radio block headers written in C++, to automatically parse them and extract information about them, their getters, setters, I/O, factory signatures.
- Created a YAML generator that uses the blocktool API to output much better YAML files for the GRC than the one present in modtool.
- Added a Command-Line support for the tool.

## ACHIEVEMENTS

- Invited to FOSDEM 2020, Brussels to represent GNU Radio.
- Invited as a speaker for GNU Radio Conference 2019, Huntsville, Alabama, USA.
- 5th position in the Syntax Error Hackathon (organized by SDS Labs).
- NTSE (National Talent Search Examination) Scholar 2012.
- Secured All India Rank 1237 in JEE Advanced 2017.
- Secured All India Rank 1583 in JEE Mains 2017.

### Skills :

- **Computer languages** : C++, Python, JavaScript, PHP
- **Softwares** : Linux, Django, Django REST, Git, React, Redux, Vim, VS Code, Sublime Text, Xilinx, MySQL

## SOCIETIES & MEMBERSHIPS

### Full Stack web developer | Project Leader | Information Management Group, IIT Roorkee

📅 January 2018 – Present

- IMG is a group of students that constantly strive to lead in the innovation, development and maintenance of advanced information technologies including computer systems, software and database systems.
- Learned to work along with a product cycle with a team of approximately 50 members.

### Contributor GNU Radio

📅 February 2019 – Present

- Contributing to the GNU Radio project since May 2019 with merged Pull Requests and reviewing them.
- Responsible for creating and maintaining Blocktool.

## TECHNICAL PROJECTS

### Placement and internship online | IMG, IIT-R

📅 August 2019 – Present

- Placement Internship portal is a Channel i application that digitises the entire placement process from creating the official IIT Roorkee resume to knowing the results.
- Designed the complete backend structure of the application and implemented it.
- Role: Backend Developer | Tech stack: Django, DRF.

### Lectures and Tutorials Portal | IMG, IIT-R

📅 August 2018 – April 2019

- LecTut is the study portal, used by unique 4k campus students and faculty every month with the aim of assisting them to achieve their academic goals.
- Port the frontend of the portal from old Django templates to modern web using JavaScript, designed the complete backend structure and implemented it.
- Role: Developer | Tech stack: Django, DRF, React, Redux.

### Omniport-service-comments | IMG, IIT-R

📅 August 2018 – November 2018

- Omniport-service-comments is a generic service which can be integrated with any Django model with a single line import.
- It has a real-time component which can be integrated with a frontend component using Web Sockets.
- Role: Developer | Tech stack: Django, DRF, Django Channels.

### Copy-Move Forgery Detection Based on Wavelet Compression and Deep Learning | IIT-R

📅 December 2018 – February 2019

- Supervisor: Dr. Vinod Pankajakshan, Assistant Professor, IIT Roorkee
- Used Deep Learning pretrained model (Alexnet on Imagenet).
- Visit: <https://github.com/aru31/CopyForgeAttackPrevention>

### Stream | IMG, IIT-R

📅 June 2018 – July 2018

- Stream is a web app to stream music on a PC, while one can control the song using other PC's connected in a network. Front-end built using vanilla CSS and design inspired by the Spotify UI.
- Tech stack includes ReactJS, Redux, Django, DRF, Django channels.
- Visit <https://github.com/aru31/stream>.

### Hackathons and Competitive Programming

- Global Rank 297 in June Challenge 2019, Codechef.
- Successful submission in Microsoft Code.Fun.Do 2017-18.