

# Divyasheel Kumar

B.Tech. (Comp. Science) IIT Mandi

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## WORK EXPERIENCE

August 27th,21 May 17th,21	<b>GSOC'21 (Google Summer of Code)   Student , THE LINUX FOUNDATION, Open Printing</b> > Zeroconf browsing toolkit for listing and managing available IPP Print/Scan services (or DNS-SD-advertised network services in general) using Avahi. <a href="#">C</a> <a href="#">gtk</a> <a href="#">CUPS</a> <a href="#">Python</a> <a href="#">GNOME</a> <a href="#">GNU/Linux</a>
March 30th,21 Dec 14th,20	<b>Web Development Contract, SCHOOL OF COMPUTING AND ELECTRICAL ENGINEERING, IIT Mandi</b> > Paid contract with the school to redesign, update and add to the department's official website. <a href="#">Php</a> <a href="#">MySQL(PDO)</a> <a href="#">Javascript</a> <a href="#">HTML/CSS</a>

## ACHIEVEMENTS

2021	<b>Silver</b> - INTER IIT Technical (Security Hackathon)
2021	<b>First</b> - Hack30 Hackathon at IIT MANDI
2020	<b>Cleared</b> - SysAdmin Test 2020 at IIT Mandi( <b>Submission</b> )
2019	<b>2nd in C.S.E. branch ( 4th overall )</b> - URI Competitive Programming Contest at IIT Mandi
2020	<b>Silver</b> - INTER IIT Cultural( Movie Making)

## PROJECTS

### WECODE WEBAPP

MARCH 2021

[github.com/Signior-X/hack30\\_2021](https://github.com/Signior-X/hack30_2021)

This is an online platform where people can code(live sharing), video call and draw(live sharing) illustrations on a white board together. This project stood first at Hack30 hackathon,IIT Mandi

[JavaScript](#) [Flask](#) [Socket-IO](#) [Firestore](#) [Python](#)

### LIVE SERVER STATUS USING REGEX

SEPTEMBER 2020

[github.com/divyashk/Server-status](https://github.com/divyashk/Server-status)

This script provides live analysis about the issues faced by services on a remote UNIX server.

[Python](#) [REGEX](#) [SMTP](#) [GNU/Linux](#)

### CoFINDER

MAY 2021

[Site](#) [github.com/divyashk/FH\\_covid\\_tool](https://github.com/divyashk/FH_covid_tool)

Cofinder is a website we created to cater to the mismanagement and insufficient availability of Covid related resources.

[Flask](#) [JavaScript](#) [COVID API](#) [Firestore](#)

### DNS-SD TOOL FOR IPP(S)/HTTP(S) SERVICES

JUN 2021

[Site](#) [github.com/divyashk/GSOC21\\_summary](https://github.com/divyashk/GSOC21_summary)

This project aimed at making the process of identifying and using the zero-conf services broadcasted through a mDNS network. This tool is housed inside the printing panel for gnome-control-center using the gtk library for the front-end and avahi-client to resolve services in the back-end. This tool can be used to navigate to the web interface for each service and also has some filters in place that reduces duplicates from different network interfaces.

[C](#) [Gtk](#) [Glade](#) [Avahi](#) [DNS-SD](#)

### CLUB QUIZ PLATFORM

JAN 2021

[Site](#)

This site helped a lot of clubs in conducting events online considering the pandemic. The site uses a real time interface that can be controlled by the quiz master with the luxury of a user login system. My role in this project was to create a system in which anyone can create their own quiz by allowing them to create an account of their own.

[Flask](#) [JavaScript](#) [COVID API](#) [Firestore](#)

### YOUTUBE MUSIC BROWSER AND DOWNLOADER

JUN 2020

[Site](#) [github.com/divyashk/BeatIT-music-downloader](https://github.com/divyashk/BeatIT-music-downloader)

Made this is as a first project(personal) learning flask. This site helps you search and download videos from youtube using paramters like rating, views, like etc.

[Flask](#) [JavaScript](#) [Youtube API](#)

## SKILLS

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<b>Programming/Markup Languages</b>	C(gtk,CMake), <b>C++</b> (stl,OOP), <b>Python</b> (Pandas,Numpy,SciPy,Jupyter-Notebook), <b>HTML5/CSS</b> (flexbox, bootstrap), <b>Javascript</b> (DOM, OOP), <b>Java</b> (OOP).
<b>Infosec</b>	Radare2, Ghidra, Metasploit, gdb
<b>Frameworks</b>	Flask, Django, Bootstrap, ExpressJS
<b>Database Management</b>	<b>SQL</b> (MySQL), <b>NoSQL</b> (Mongodb, Firestore)
<b>System Administration</b>	<b>GNU/Linux</b> (Debian, Arch), Apache, Nginx, bash/zsh/python
<b>Others</b>	VScode,Hadoop, Umbrello, PhpMyAdmin, XAMPP

## POSITIONS AND RESPONSIBILITIES

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- > **Core Team** Programming Club IIT Mandi
- > **Core Team** S.A.I.C.( System Administration and Infosec Club IIT Mandi )
- > **Organized and Conducted** Tartarus CTF 2021 at IIT Mandi.
- > **System Administrator** for the public facing SNTC server.
- > **Mentor** Guidance and Counselling Services(G.C.S.) IIT Mandi.
- > **Co-Coordinator** NSS IIT Mandi.