

# Divyasheel Kumar

Indian Institute of Technology Mandi ( B.Tech. (Comp. Science) - CGPA 8.1/10 )

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## WORK EXPERIENCE

Sept 20th, 22 May 20th, 22	<b>Mentor ( Google Summer of Code )   GSOC'22 , THE LINUX FOUNDATION, Open Printing</b> > Was selected to mentor 2 projects for GSOC '22 in the org The Linux Foundation. <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>
August 27th, 21 May 17th, 21	<b>Student (Google Summer of Code)   GSOC'21 , 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>
Jun 15th, 22 Jan 3rd, 22	<b>O.D.E.(Open Data Economy) Holdings, Arizona, FULL STACK DEVELOPER INTERN , REMOTE</b> > Developed the AWS back-end for a flutter application that enables you to automatically retrieve all your private data collected by 3rd party social media applications. <a href="#">AWS (Lambda)</a> <a href="#">Event-Bridge</a> <a href="#">CDK</a> <a href="#">S3</a> <a href="#">Gateway</a> <a href="#">Cognito</a> <a href="#">Flutter</a> <a href="#">Android Studio</a>
March 30th, 21 Dec 14th, 20	<b>Web Development Contract, SCHOOL OF COMPUTING AND ELECTRICAL ENGINEERING, IIT Mandi</b> > Selected for a 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
2019	<b>2nd in C.S.E. branch ( 4th overall )</b> - URI Competitive Programming Contest at IIT Mandi
2020	<b>Cleared</b> - SysAdmin Test 2020 at IIT Mandi(Submission)

## PROJECTS

### PAAS FOR HOSTING WITH AUTOMATIC REAL-TIME DEPLOYMENT ON SCALABLE HARDWARE

MAY 2022

[github.com/divyashk/tech-meet](https://github.com/divyashk/tech-meet)

Developed a site that can deploy an application provided in the form of a docker container on a user provided subdomain. The hardware being any amount of multiple computers connected on a network. New instances of the same application are also created on different computers to achieve load balancing automatically, all the while retaining the same subdomain.

[Docker](#) [Nginx](#) [Flask](#) [Python](#)

### SCALABLE HOSPITAL MANAGEMENT SYSTEM USING MICROSERVICE ARCHITECTURE

MARCH 2022

[github.com/divyashk/tech-meet](https://github.com/divyashk/tech-meet)

In this project we used docker containers to create multiple instances of different/same micro-services and routed them through a gateway to remove congestion and increase scalability.

[Docker](#) [Nginx](#) [Flask](#) [Python](#)

### ONLINE CODING PLATFORM - WeCode

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](#)

### 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](#)

## 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 college SNTC server.
- > **Mentor** Guidance and Counselling Services(G.C.S.) IIT Mandi.
- > **Co-Coordinator** NSS IIT Mandi.