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	**Mentor (Google Summer of Code)	GSOC'22 , THE LINUX FOUNDATION, Open Printing** ❯ Was selected to mentor 2 projects for GSOC '22 in the org The Linux Foundation. <small>C	gtk	CUPS	Python	GNOME	GNU/Linux</small>
August 27th,21 May 17th,21	**Student (Google Summer of Code)	GSOC'21 , THE LINUX FOUNDATION, Open Printing** ❯ Zeroconf browsing toolkit for listing and managing available IPP Print/Scan services (or DNS-SD-advertised network services in general) using Avahi. <small>C	gtk	CUPS	Python	GNOME	GNU/Linux</small>
Jun 15th,22 Jan 3rd, 22	**O.D.E.(Open Data Economy) Holdings, Arizona, FULL STACK DEVELOPER INTERN , REMOTE** ❯ 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. <small>AWS (Lambda	Event-Bridge	CDK	S3	Gateway	Cognito)	Flutter	Android Studio</small>
March 30th,21 Dec 14th,20	**Web Development Contract, SCHOOL OF COMPUTING AND ELECTRICAL ENGINEERING, IIT Mandi** ❯ Selected for a paid contract with the school to redesign, update and add to the department's official website. <small>Php	MySql(PDO)	Javascript	HTML/CSS</small>

🏆 ACHIEVEMENTS

2021	**Silver** - INTER IIT Technical (Security Hackathon)
2021	**First** - Hack30 Hackathon at IIT MANDI
2019	**2nd in C.S.E. branch (4th overall)** - URI Competitive Programming Contest at IIT Mandi
2020	**Cleared** - 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

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.

<small>Docker | Nginx | Flask | Python</small>

SCALABLE HOSPITAL MANAGEMENT SYSTEM USING MICROSERVICE ARCHITECTURE   MARCH 2022

○ 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.

<small>Docker | Nginx | Flask | Python</small>

ONLINE CODING PLATFORM - WECODE   MARCH 2021

○ 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

<small>JavaScript | Flask | Socket-IO | Firestore | Python</small>

LIVE SERVER STATUS USING REGEX   SEPTEMBER 2020

○ github.com/divyashk/Server-status

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

<small>Python | REGEX | SMTP | GNU/Linux</small>

DNS-SD TOOL FOR IPP(S)/HTTP(S) SERVICES   JUN 2021

☐ Site   **○** 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.

<small>C | Gtk | Glade | Avahi | DNS-SD</small>

☰ Skills

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

✚ Positions and Responsibilities

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