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ACADEMICS

Indian Institute of Technology (IIT), Kharagpur

Bachelor of Technology, Department of Mining Engineering - 2nd Year.

Minor in Computer Science and Engineering.

Sep. 2020 – Present

CGPA - 8.18

Ongoing

Vidya Bharati Chinmaya Vidyalaya, Jamshedpur

Class XII Central Board of Secondary Education (CBSE).

Class X Central Board of Secondary Education (CBSE).

April, 2007 – March, 2020

Percentage : 93.2%

Percentage : 96.4%

WORK EXPERIENCE

SDE Intern at Neverinstall | Bangalore, Karnataka, India

March, 2022 - Ongoing

- neverinstall lets you access your favorite applications directly from your browser without downloading or installing them.
- Integrate webcam and mic for all available apps using loopback devices in linux.
- Traffic control using tc and eBPF in containers, involves bandwidth rate control and IP filtering.

Website : <https://neverinstall.com/>

PROJECTS

Lagnos VPN | C Programming, VPN, Routing, libuv, wolfSSL

Ongoing

- A VPN based on lightway-core (open-sourced) used by ExpressVPN.
- Uses lightway-laser wrapper for the core library.
- Working on TCP implementation.

Available here : <https://github.com/sheharyaar/lagnos-vpn/>

Concurrent Web Server | C Programming, Linux, TCP/IP, Sockets

October, 2021

- A concurrent web server in C using select() and sockets from scratch.
- Effective error handling and message logging. Supported HTTP/1.1 Methods : GET, HEAD, POST.

Available here : <https://github.com/sheharyaar/web-server-in-c>

EXIF Data Extractor | C Programming, Linux

September, 2021

- Extracts EXIF data from Images and works for both Intel (II) endian and Motorola (MM) endian.

Available here : <https://github.com/sheharyaar/exif-data-extractor>

Smart Doorbell | Python, Telegram BOT, Raspberry Pi, IoT

March, 2021

- Smart doorbell with image clicking and delivery via Telegram Bot.
- Persistent data storage, effective error checking and input sanitising.

Available here : <https://github.com/sheharyaar/DoorBOT-Telegram>

Presentations

- Memory Allocators in C - dlmalloc at KOSS Lightning Talks.

August, 2021

Available at - <https://github.com/sheharyaar/sheharyaar/blob/main/Memory%20Allocators.pdf>

- Introduction to Kernel Module Programming at KOSS event.

July, 2021

Available at - <https://github.com/sheharyaar/sheharyaar/blob/main/KMP.pdf>

SKILLS

Programming Languages: C , C++, Golang, Bash Scripting

Technical Skills: Data Structures & Algorithms, Linux Syscalls, IPC, TCP/IP & Sockets, VPN Protocols and Routing, Git, Linux, Docker.

Non Technical Skills: Problem-Solving and Critical Thinking, Documentation.

Leadership: Vice Captain of the Indra House at high school for the year 2017.

RESPONSIBILITIES

Core Team Member at Kharagpur Open Source Society (KOSS)

July, 2021 - Present

- KOSS is a society dedicated to open source - <https://kossiitkgp.org/>
- KOSS Organises the Kharagpur Winter of Code (KWoC) and organises Workshops on various topics like Git, Python, etc.
- I prepared slides for workshop on Git & Linux, worked on mailing script and backend server.

Maintainer of Direct Connect (DC), IIT Kharagpur

January, 2022 - Present

- Direct Connect (DC) is the largest P2P file sharing platform at IIT, Kharagpur.
- I was responsible for setting up PtokaX Server used for Direct Connect backend, on Raspberry Pi.
- I am responsible to maintain the server and document the process.
- The documentation and the source code is available at - <https://github.com/sheharyaar/ptokax>

ACHIEVEMENTS

Open Soft 2022, IIT Kharagpur - Gold (1st) Position

April, 2022

- Open Soft is an interhall competition, in which a problem statement is released containing specifications of the software to be developed and related constraints.
- Skills Gained : Containers, Kubernetes, AWS Load Balancing, NGINX Load Balancing and Ingress.
- The documentation and the project code is available at - <https://github.com/sheharyaar/opensoft-iitkgp>