

# Kapsha Suraj Singh

Cyber Security Student - Bengaluru, India, 560078

[Website](#)

[Linkedin](#)

[Github](#)



## Work Experience

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- **3 months of Cyber Security Diploma Internship at Netty Brains**
  - System Administration on Linux
  - Remote maintenance
  - Hands-on CPU hardware maintenance at Netty Brains

Bengaluru, India ; Mar 2023 – June 2023

- **3 months of Industrial Training of Intel Unnati Program**
  - Research on pixels of images
  - Use of open source software [FOSS] like FFmpeg and UPSCAYL

Online mode ; May 2024 - Jul 2024

## Key Skills

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- **Programming Languages** – C, JAVA , PYTHON
- **Front end** – HTML , CSS , JS
- **Technologies** – VCS , automation using BASH scripting
- **Developer Tools** - Linux, Git , Neovim , MariaDB

## Personal Projects

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- Working on Improvising Termux API location request to retrieve location data to send an emergency **SMS** when android battery goes **below 10%**

Feb 2025- present

Link: [Github](#)

1. Works without internet [**100% offline**]
2. Termux [android terminal emulator] inherent API
3. Accurate location details latitude/longitude along with altitude and speed using GPS [ when offline] –
4. Popular map applications does allow location sharing with particulars but it doesn't notify when one has a low battery % after which the phone might die
5. Minimalistic code

- Automating **Secure remote file transfer** among devices of any brand [does not need to be in the same network]

Aug 2024 - Sep 2024

1. **Saves around 10% of time** / on each transfer
2. Notifies when manual intervention is required
3. Maintains a SFTP connection among devices supporting dynamic IP
4. Supporting playing media
5. Can work with EPI [external peripheral devices ] as native shell

- Wrote my own ArchInstall Script [ that includes installation of 2 display compositors ]

May 2025 - present

1. Complete Arch linux installation which only required booting from the ISOs
2. Setup of dot-files along with Dev, Security, Libraries tools .

## Career Highlights

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- Reached the **Grand Finale** in Terra Tech **national** level Hackathon *Mar 2024*
- Achieved **2nd prize in State level** paper presentation held at VET College *Feb 2024*
- **First prize in TECHBIZ@SJP State Level** Inter-College coding competition *May 2023*
- **5 Star** C language badge in Hacker Rank *2021*
- Was able to Install **proprietary NVIDIA** Drivers [ for arch] in 2024 for **GT 710** *Aug 2024 – Dec 2024*  
[ which was brought around 2016 ]
- **Published a paper** on “Temporal Analysis and CWE Code Prediction for Software Vulnerabilities using Machine Learning” at the **8th IEEE internal conference on CSITSS** *Nov 2024*  
Paper ID - 943

## Education

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- **Bachelor of Technology 3rd Year CSE – Cyber Security RV College of Engineering ;** *2023 - present*  
Bengaluru , India CGPA: 8.35
- **Secured 148th Rank in State Common Entrance Test** *2023*
- **Diploma in Computer Science and Engineering** *Dec 2020 – Apr 2023*  
**VET BVL Polytechnic ;**  
Bengaluru , India CGPA: 9.88
- **10th CBSE** *Jun 2016 - Sep 2020*  
**Martin Luther Public School ;**  
Bengaluru, India Grade:86.6 %

## Certifications

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- **NPTEL – Information Security 5** *Jan 2025 – Mar 2025*
- **NPTEL - Data Structures and Algorithms using Java** *Jul 2022 - Oct 2022*
- **NPTEL – Introduction to Graph Algorithms** *Jul 2024 - Sept 2024*
- **Infosys- Spring Board - Introduction to Cyber Security** *Sept 2022 - Nov 2022*
- **IBM on Coursera - Getting started with Git and Github** *Mar 2023 - Apr 2023*

## Interests

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Routine Automation, Bash scripting . Video editing( Kinemaster , adobe After Effects, kdenlive) ,Problem Solving, Programming , Football, Cricket , Cooking, Animation .

## Languages Known : English, Hindi, Kannada, Telugu

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