

Kapsha Suraj Singh

Cyber Security Student - Bengaluru, India, 560078

[Website](#)

[Linkedin](#)

[Github](#)

Work Experience

- **3 months** of Cyber Security Diploma **Internship** at **Netty Brains** *Bengaluru, India ; Mar 2023 – June 2023*
 - System Administration on Linux
 - Remote System maintenance
 - Hands-on CPU hardware maintenance at Netty Brains
- **3 months** of **Industrial Training** of **Intel Unnati** Program *Online mode ; May 2024 - Jul 2024*
 - Detection of Pixelated images – achieved an accuracy of around 60%
 - Python script automation to enhance the image using ffmpeg and embedded Bash
 - Use of open source software [FOSS] like FFMPEG and UPSCAYL

Key Skills

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

Personal Projects

- 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
- Training Project at DHS informatics ,Jayanagar, Bangalore, Karnataka Privacy Preserving Biometrics for Aadhar verification *Mar 2023-Jun 2023*
 1. Developed a website ensuring citizen data privacy using hashed credentials for secure storage.
 2. Added a hash layer to protect user data from tampering and enhance cloud security.

Career Highlights

- 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

- Bachelor of Technology 3rd Year CSE – Cyber Security RV College of Engineering ;** *2023 - present*
Bengaluru , India CGPA: 8.11
- Secured 148th Rank in State Common Entrance Test** *2023*
- Diploma in Computer Science and Engineering VET BVL Polytechnic ;** *Dec 2020 – Apr 2023*
Bengaluru , India CGPA: 9.88
- 10th CBSE Martin Luther Public School ;** *Jun 2016 - Sep 2020*
Bengaluru, India Grade:86.6 %

Certifications

- 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

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

Languages Known : English, Hindi, Kannada, Telugu