

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*
[onsite]
 - o System Administration on Linux
 - o Remote System maintenance
 - o Hands-on CPU hardware maintenance at Netty Brains
- **3 months** of **Industrial Training** at **Intel Unnati** Program *May 2024 - Jul 2024*
[virtual]
 - o Research on pixels of images
 - o Intro of open source software [FOSS] like FFMPEG and UPSCAYL

Key Skills

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

Personal Projects

- Working on Improvising Termux API location request to retrieve location data to send an emergency **SMS** when android battery goes **below 10%** [Github](#) *Feb 2025- present*
 1. Works without internet [**100% offline**]
 2. Termux [android terminal emulator] API
 3. Implement 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
- CLI alternative for **Syncthing**. Automating **Secure remote file transfer** [Github](#) *Aug 2024 - Sep 2024*
 1. among devices of any brand [does not need to be in the same network , uses **TAILSCALE**]
 2. **Saves around 10% of time** / on each transfer
 3. Notifies when manual intervention is required
 4. Maintains a SFTP connection among devices supporting dynamic IP
 5. Supporting playing media
 6. Can work with EPI [external peripheral devices] as native shell
- **CertiCrypt** - CryptoGrahically Certified Academic Records [Github](#) *Jun-15 - present*
- Wrote my own **ArchInstall** Script [that includes installation of 2 display compositors] [Github](#) *May 2025 - present*

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: 8.34
- Secured 148th Rank in State’s 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 – 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

Routine Automation, Bash scripting . Video editing(Kinemaster , kdenlive) ,Programming , Football, Cricket , Cooking, Animation .

Languages Known : English, Hindi, Kannada, Telugu