

Kapsha Suraj Singh

[Mail](#)[Website](#)[Github.com](#)[Linkedin](#)

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TECHNICAL SKILLS

Languages: Java, JavaScript, Node.JS , Bash, C, HTML/CSS, Python(basics)

Developer Tools: Linux [primary:Arch], Git/Github, Neovim, Vim, Termux, hoppscotch/postman, github pages, Nginx, Shell scripting, tmux, zsh

System Operations: Package management, rsync, syncthing, tailscale, Openssh, htop / btop / auto-cpufreq / lm-sensors

UI / Display Compositors: TTY, GRUB-res ; [XORG] DWM, xfce, Gnome, KDE ; [Wayland] Hyprland,

EXPERIENCE

Cyber Security Intern [onsite]

Mar 2023 – June 2023

Netty Brains

Bengaluru , India

- Performed **Linux - System Administration** onsite
- Conducted **remote system maintenance** to ensure uptime and security
- Genuine Hands-on experience with CPU hardware troubleshooting and maintenance

Industrial Training at Intel Unnati Program

May. 2024 – July. 2024

- Conducted Research on **image pixels processing** and analysis [virtual]
- Explored and Utilized **open source software** (FOSS), including FFMPEG and UPSCAYL

Achievements

- Reached the **GRAND FINALE** in Terra Tech **NATIONAL level** Hackathon Mar. 2024
- First prize** in TECHBIZ@SJP **STATE Level Inter-College coding** competition May. 2023
- Achieved **2nd** prize in **State level** paper presentation held at VET College Feb. 2024
- 5 Star** C language badge in Hacker Rank 2021
- Published a paper** on “Temporal Analysis and **CWE Code Prediction** for Software Vulnerabilities using Machine Learning” at the 8th IEEE internal conference on CSITSS Aug. 2020 - Dec. 2024
Paper ID - 943 [[Paper - Link](#)]
- Was able to Install **proprietary NVIDIA Drivers** [for Arch Linux] in 2024 for **GT 710** Nov. 2024
[which was brought around 2016]

PROJECTS

GITHUB:ksurajsingh/<below-name>

Bat | [early]

[emergency](#) Feb. 2025 – Present

Developing a Termux API script to **send emergency SMS** with GPS location (**lat/long, altitude, speed**) when Android battery drops below 10%.

- Works **100% offline**
- Uses Termux API (Android terminal emulator)
- Retrieves full GPS details **without internet**
- Adds low-battery alerts **unlike standard map** apps
- Minimalistic** codebase for efficiency

CLI alternative to Syncthing | [Matured | Stable]

[dot-files](#) May 2018 – May 2020

- Works across devices of any brand using **Tailscale** (no same-network requirement)
- Saves **~10%** time per transfer
- Provides notifications** when manual intervention is needed
- Maintains **SFTP connections** across devices with **dynamic IP**
- Supports media** playback
- Works with **external peripheral devices (EPI)** as a native shell

CertiCrypt | [stable] v0.3.0

[certicrypt](#) June 2025 - present

- Academic-Records visualization on **Blockchain**

Shadow_Clone | [mature] v0.1.0

[shadow_clone](#) May. 2025 - present

- Developed a custom **ArchInstall** script including setup for **two display compositors**

Certificates: NPTEL - Information Security 5 , NPTEL – DSA in Java

EDUCATION

- RV College of Engineering** [CET 148] CGPA: 8.61 Bengaluru, India
- Bachelor of Engineering, Computer Science, Cyber Security* Dec. 2023 – present
- VET BVL Polytechnic** CGPA: 9.88 Bengaluru, India
- Diploma in Computer Science and Engineering* Dec. 2020 – Apr. 2023