

# Kapsha Suraj Singh

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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

<b>Cyber Security Intern [onsite]</b> Netty Brains <ul style="list-style-type: none"><li>Performed <b>Linux - System Administration</b> onsite</li><li>Conducted <b>remote system maintenance</b> to ensure uptime and security</li><li>Genuine Hands-on experience with CPU hardware troubleshooting and maintenance</li></ul>	Mar 2023 – June 2023 Bengaluru , India
<b>Industrial Training at Intel Unnati Program</b> <ul style="list-style-type: none"><li>Conducted Research on <b>image pixels processing</b> and analysis</li><li>Explored and Utilized <b>open source software</b> (FOSS), including FFMPEG and UPSCAYL</li></ul>	May. 2024 – July. 2024 [virtual]

## Achievements

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

## PROJECTS

GITHUB:[ksurajsingh/<project-name>](#)

<b>Bat   [early]</b> Developing a Termux API script to <b>send emergency SMS</b> with GPS location ( <b>lat/long, altitude, speed</b> ) when Android battery drops below 10%. <ul style="list-style-type: none"><li>Works <b>100% offline</b></li><li>Uses Termux API (Android terminal emulator)</li><li>Retrieves full GPS details <b>without internet</b></li><li>Adds low-battery alerts <b>unlike standard map</b> apps</li><li><b>Minimalistic</b> codebase for efficiency</li></ul>	<a href="#">emergency</a> Feb. 2025 – Present
<b>CLI alternative to Syncthing   [Matured   Stable]</b> <ul style="list-style-type: none"><li>Works across devices of any brand using <b>Tailscale</b> (no same-network requirement)</li><li>Saves <b>~10%</b> time per transfer</li><li><b>Provides notifications</b> when manual intervention is needed</li><li>Maintains <b>SFTP connections</b> across devices with <b>dynamic IP</b></li><li><b>Supports media</b> playback</li><li>Works with <b>external peripheral devices (EPI)</b> as a native shell</li></ul>	<a href="#">dot-files</a> May 2018 – May 2020
<b>CertiCrypt   [stable] v0.3.0</b> <ul style="list-style-type: none"><li>CryptoGraphically Certified Academic Records</li></ul>	<a href="#">certicrypt</a> June 2025 - present
<b>Shadow_Clone   [mature] v0.1.0</b> <ul style="list-style-type: none"><li>Developed a custom ArchInstall script including setup for two display compositors</li></ul> <b>Certificates:</b> NPTEL - Information Security 5 , NPTEL – DSA in Java	<a href="#">shadow_clone</a> May. 2025 - present

## EDUCATION

<b>RV College of Engineering</b> Bachelor of Technology Computer Science, Cyber Security	Bengaluru, India Dec. 2023 – present
<b>VET BVL Polytechnic</b> Diploma in Computer Science and Engineering	Bengaluru, India Dec. 2020 – Apr. 2023