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*
    - o System Administration on Linux
    - o Remote System maintenance
    - o Hands-on CPU hardware maintenance at Netty Brains
- ➢ **3 months** of **Industrial Training** of **Intel Unnati** Program   *Online mode ; May 2024 - Jul 2024*
    - o Detection of Pixelated images – achieved an accuracy of around 60%
    - o Python script automation to enhance the image using ffmpeg and embedded Bash
    - o 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 datato 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

  Mar 2023-Jun 2023
- Training Project at DHS informatics ,Jayanagar, Bangalore, Karnataka Privacy Preserving Biometrics for Aadhar verification

  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 <u>**national**</u> 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** [which was brought around 2016] — *Aug 2024 – Dec 2024*
- <u>**Published a paper**</u> on "Temporal Analysis and CWE Code Prediction for Software Vulnerabilities using Machine Learning" at the <u>**8th IEEE internal conference on CSITSS**</u> Paper ID - 943 — *Nov 2024*

Education

- **Bachelor of Technology 3rd** Year CSE – **Cyber Security RV College of Engineering** ;

  Bengaluru , India   CGPA: 8.35 — *2023 - present*

- **Secured 148th Rank in State Common Entrance Test** — *2023*

- **Diploma in Computer Science and Engineering VET BVL Polytechnic** ;

  Bengaluru , India   CGPA: 9.88 — *Dec 2020 – Apr 2023*

- **10th CBSE Martin Luther Public School** ;

  Bengaluru, India   Grade:86.6 % — *Jun 2016 - Sep 2020*

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 .

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Languages Known : English, Hindi, Kannada, Telugu