Kapsha Suraj Singh

Cyber Security Student - Bengaluru, India, 560078

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   *Aug 2024 - Sep 2024* in the   same network]

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   *Mar 2023-Jun 2023*

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.

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*

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 *Nov 2024*
  Vulnerabilities using Machine Learning" at the **8th IEEE internal conference on CSITSS**
  Paper ID - 943

Languages Known

English, Hindi, Kannada, Telugu

Interests

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

Education

Bachelor of Technology 3rd Year CSE – **Cyber Security** *2023 - present*

RV College of Engineering ; Bengaluru , India

CGPA: 8.15

Secured **148th Rank** in State Common Entrance Test | 2023 *2023*

Diploma in Computer Science and Engineering *Dec 2020 – Apr 2023*

VET BVL Polytechnic ; Bengaluru , India

CGPA: 9.88

10th CBSE *Jun 2016 - Sep 2020*

Martin Luther Public School ; Bengaluru, India

Grade:86.6 %