Eklavya Mathur

+91 8003533944 | work.eklavyamathur@gmail.com | linkedin.com/in/eklavya-mathur | github.com/eklavyamathur9 | eklavya-dev.vercel.app

SUMMARY

Cybersecurity enthusiast with expertise in developing security-focused solutions. Proficient in Python, SQL, and various web technologies with strong communication and collaboration skills. Committed to enhancing cyber safety through innovative projects and continuous learning in the cybersecurity domain.

TECHNICAL SKILLS

Programming Languages: Python, C++, SQL, HTML5, CSS3, Bash/Shell Scripting

Frameworks & Libraries: React.js, Vite, TailwindCSS, Bootstrap

Tools & Platforms: Git, GitHub, VS Code, Firebase, AWS (EC2, S3), Vercel, Netlify

Cybersecurity: Network Security, Vulnerability Assessment, Security Protocols

PROJECTS

BitWipers   Python, Tkinter, Cryptography, NIST/DoD Standards
Secure Data Wiping for E-Waste Recycling   *Smart India Hackathon 2025*

- Developed an open-source tool to enable secure IT asset recycling by addressing data privacy fears, tackling India's 50k Cr e-waste crisis.
- Engineered core wiping engine with NIST SP 800-88 & DoD 3/7-pass compliance for HDDs/SSDs, including cryptographic verification.
- Designed a user-centric GUI for one-click operation and generated tamper-proof PDF/JSON certificates with SHA-256 verification.
- Implemented cross-platform support (Windows/Linux) to maximize accessibility and promote safe device disposal.

DNS Traffic Analyzer   Python, Scapy, NumPy, ReportLab
Security Analysis Tool   *Personal Project*

- Developed a Python-based tool to capture and analyze DNS traffic for security threat detection
- Implemented packet capture over UDP port 53 and calculated Shannon entropy to identify suspicious domain patterns
- Designed DNS flag parsing and comprehensive reporting system with JSON and PDF outputs
- Enabled detection of DNS tunneling, DGA activity, and network misconfigurations through automated analysis

WeatherWise – Real-Time Weather Forecast App   React, Vite, OpenWeatherMap API
Personal Project   *Aug 2025 – Present*

- Built a modern weather forecast application delivering real-time weather data with a clean, minimalist UI/UX
- Utilized the OpenWeatherMap API to provide accurate, location-based weather updates
- Optimized build process and app performance using Vite and modular React components

Focusly – To Do List Application   React, Tailwind CSS, LocalStorage
Personal Project   *Aug 2025 – Present*

- Developed a responsive task management application with features to add, toggle, and delete tasks
- Implemented localStorage for persistent task management across sessions
- Showcased modern React practices using hooks for efficient state and UI handling

EDUCATION

VIT Bhopal University   2023 – Present
Integrated M.Tech. - Computer Science and Engineering (Cyber Security)   *Bhopal, Madhya Pradesh*

Delhi Public School, Jodhpur   2023
Senior Secondary Education (Class 12: 86%)   *Jodhpur, Rajasthan*

Delhi Public School, Jodhpur   2021
Secondary Education (Class 10: 96%)   *Jodhpur, Rajasthan*

CERTIFICATIONS

Google Cybersecurity Professional Certificate, Coursera

The Bits and Bytes of Computer Networking, Coursera

Introduction to Cybersecurity, Cisco Networking Academy