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OBJECTIVE

Aspiring software developer and cybersecurity enthusiast with a strong foundation in Python, web development, and machine learning. Seeking opportunities to apply my skills in developing innovative solutions and contributing to cybersecurity advancements.

EDUCATION

Bachelor of Engineering in Computer Science
Alva's Institute of Engineering and Technology | 2025 (Expected)

Diploma in Mechanical Engineering
S J V P Polytechnic College, Harihar | 2019

CERTIFICATIONS

- **Advanced Java Programming** – CodeChef
- **Foundations of Cybersecurity** – Coursera
- **Cryptography in IT Security & Hacking** – Infosys-Springboard
- **Complete WordPress Website Developer Course** – Udemy
- **Setup Ubuntu Server Course** – Udemy
- **Intro to Bug Bounty Hunting & Web Application Hacking** – Udemy
- **Programming Fundamentals Using Python** – Infosys-Springboard

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Technical Skills

- **Programming Languages:** Python, C, Java, Bash, SQL
- **Web Technologies:** HTML, CSS, JavaScript, PHP, Django, WordPress Development
- **Cybersecurity & Ethical Hacking:** Vulnerability Assessment and Penetration Testing (VAPT), Reconnaissance, Bug Bounty Hunting, Admin Panel Brute-Forcing, Web Application Hacking, Network Security
- **Machine Learning & AI:** Anomaly Detection, Image Color Compression using K-Means
- **Automation & Scripting:** Python Automation, Bash Scripting, Linux Shell Scripting
- **Database Management:** MySQL, PostgreSQL, SQLite
- **DevOps & Containerization:** Docker, CI/CD Pipelines
- **Linux & Unix:** Kali Linux, Ubuntu, i3wm, bspwm, Linux Customization
- **Version Control:** Git, GitHub
- **Frameworks & Libraries:** OpenCV, dlib, face_recognition, Streamlit, Django
- **System Administration:** Ubuntu Server Setup, Shell Scripting for Automation

- **Penetration Testing Tools:** Metasploit, Nmap, AdminRecon, Burp Suite
- **Networking:** Network Traffic Analysis, Packet Inspection
- **Cloud Technologies:** Google Cloud Platform (GCP), Azure
- **IoT Development:** Raspberry Pi, Esp32 Cam module,
- **Game Development:** GUI and CLI-based Educational Games for Linux Command Mastery
- **Project Management Tools:** GitHub Projects,

Projects

1. **Orphanage Management System**
   GitHub: KIRAN-KUMAR-K3/Orphanage-Management-System

   - Created a Streamlit application for managing orphanage records and facilitating donations via a payment gateway.

2. **Railway Administration System**
   GitHub: KIRAN-KUMAR-K3/railway-administration

   - Built a web application for railway management, allowing users to book, cancel tickets, and view train schedules.

3. **Brouteforce**
   GitHub: KIRAN-KUMAR-K3/Brouteforce

   - Developed an advanced brute-force attack tool to assess system security, with customizable parameters and multi-threaded execution.

4. **Image Color Compression using K-Means**
   GitHub: KIRAN-KUMAR-K3/Image-Color-Compression-using-K-Means

   - Developed a Python tool for compressing images using the K-Means clustering algorithm, supporting multiple formats and displaying original vs. compressed images.

5. **Docker WordPress Setup**
   GitHub: KIRAN-KUMAR-K3/vulnweb-docker

   - Created a Docker Compose setup for deploying a local WordPress site with a MySQL database, facilitating easy management and persistent data storage.

6. **Linux Command Maestro**
   GitHub: KIRAN-KUMAR-K3/LinuxCommandMaestro

   - Developed a tool to help users learn and practice Linux commands interactively.

7. **Poweroff Script**
   GitHub: KIRAN-KUMAR-K3/poweroff-script

   - Implemented a script to safely power off a system with user-defined conditions.

8. **Admin Recon**
   GitHub: KIRAN-KUMAR-K3/AdminRecon

   - Developed a reconnaissance tool to gather information about web applications for penetration testing.

9. **Linux Mount Home**
   GitHub: KIRAN-KUMAR-K3/linux-mount-home

   - Created scripts to automate the mounting of external devices in Linux.

EXPERIENCE

Cybersecurity Researcher (Vulnerability Assessment and Penetration Testing)
Self-Employed
June 2024 - Present

- Conducted extensive vulnerability assessments across various web applications, identifying and reporting security flaws to enhance online security.

- **NASA Vulnerability Report:** Disclosed a bulk directory listing vulnerability across multiple subdomains (August 2024), highlighting the potential for sensitive information exposure. Provided actionable recommendations for mitigation.

- **hrylabour.gov.in XSS Vulnerability:** Reported a reflected Cross-Site Scripting (XSS) vulnerability classified as high severity on June 26, 2024. Successfully collaborated with the website administrators to resolve the issue promptly.

- **patanjaliayurved.net XSS Vulnerability:** Responsibly disclosed an XSS vulnerability on July 9, 2024, detailing potential risks such as session hijacking and phishing attacks. Engaged with the security team and offered remediation strategies, awaiting updates on the report's status and potential bug bounty recognition.

- **Stanford University AWS Configuration Leak:** Identified a critical AWS configuration leak in a public Git repository on July 11, 2024, exposing sensitive information. Recommended immediate actions for revocation of credentials, access log audits, and enhanced security policies to prevent future exposures.

Cybersecurity Intern
Edwin's Lab | 2023

- Assisted in ethical hacking and penetration testing projects, focusing on vulnerability assessments and bug hunting.

EXTRACURRICULAR ACTIVITIES

- Volunteered for beach cleaning drives at Hejamadi Kodi Beach.
- Active member of college chess and volleyball teams.

HOBBIES

- Chess, Volleyball
- Exploring new Linux environments and tools
- Cybersecurity and ethical hacking challenges