

HARSHWARDHAN RANVIR

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EDUCATION

New Horizon Institute of Technology & Management

Aug 2023 – May 2027 (Expected)

B.E. Computer Engineering — University of Mumbai

TECHNICAL SKILLS

Languages	Python, JavaScript, HTML, CSS, Bash
Frameworks	Flask, Scapy
Tools & DevOps	Docker, Git, GitHub, Linux (Ubuntu), QEMU/KVM, Nmap, Wireshark
Databases	PostgreSQL, Supabase, SQLite
APIs & AI	Groq API (Llama 3.3 70B), OpenWeatherMap, Ollama (local LLMs)
Security	ARP scanning, network monitoring, aircrack-ng, packet analysis
Cloud	Render (deployment), Supabase (DBaaS), Docker containerization

PROJECTS

CERBERUS v2 — Containerized Network Sentinel

2026 – Present

Python · Docker · Scapy · Nmap · Linux

- Dockerizing CERBERUS v1 for 24/7 deployment; integrating Nmap port scanning alongside ARP device discovery
- Adding webhook and email alert system for real-time intrusion notifications

Voyage Canvas — AI Travel Planner

2025 – 2026

Python · Flask · Groq API · PostgreSQL · Supabase · Render · Vanilla JS

- Full-stack AI travel planner generating day-by-day itineraries via Groq API (Llama 3.3 70B); deployed live on Render
- Architected as SaaS + DBaaS (Supabase) + PaaS (Render) to satisfy two college subjects with one codebase
- 4-model fallback chain (Llama 3.3 70B → Llama 3.1 8B → Mixtral → Gemma) for zero-downtime rate limit handling

github.com/Ranvir2028/Voyage-Canvas

CERBERUS v1 — Python Network Sentinel

Dec 2025

Python · Scapy · Networking

- ARP-based network scanner with two-phase operation: discovery mode → surveillance mode with CRITICAL-level alerts
- Auto-detects router/subnet via netifaces; built Windows Npcap auto-installer for cross-platform support

github.com/Ranvir2028/Cerberus-The-Network-Sentinel

EXPERIENCE

Freelance Developer

Jan 2026 – Present

Self-employed

- Building Python automation tools and web applications for personal and client projects

ADDITIONAL

OS & Lab Dual-boot Ubuntu 24.04 + Windows 11; QEMU/KVM virtualization lab for security research

Writing Technical blog at dev.to/harshwardhan_ranvir — deep-dives on security tools and AI applications; cross-posted to LinkedIn

Interests Network security, cybersecurity, local LLMs, systems automation