

PIYUSH KUMAR

Cybersecurity Specialist · Penetration Tester · SOC Analyst · Digital Forensics Investigator · Author

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PROFESSIONAL SUMMARY

Cybersecurity professional specializing in **penetration testing**, **red teaming**, **SOC operations (L1/L2)**, and **digital forensics**, with hands-on experience discovering vulnerabilities and hardening systems against advanced threats. **CompTIA PenTest+** and **TryHackMe SAL1** certified, ranked **Global Top 145 on TryHackMe**, author of **four published cybersecurity books**, and **Founder & Director of RAKSHANEX TECHNOLOGIES**. Creator of **OmniCore OS**, a from-source hardened Linux security distribution. Work spans offensive security, DFIR, cloud security, secure OS engineering, and applied security research aligned to MITRE ATT&CK, NIST, and OWASP.

CORE COMPETENCIES & TECHNICAL SKILLS

Offensive Security Bounty, Exploit Validation	Penetration Testing, Red Teaming, Ethical Hacking, Vulnerability Assessment, Web & Network Security, Android Bug
Defensive & DFIR Chain-of-Custody, Cyber Crime Investigation	SOC Analysis (L1/L2), Incident Response, Threat Detection & Hunting, SIEM, Digital Forensics, Malware Analysis,
Frameworks & Standards	MITRE ATT&CK, MITRE ATLAS, NIST CSF, OWASP Top 10, Cyber Kill Chain, EU AI Act (Art. 12)
Tools	Nmap, Metasploit, Burp Suite, Wireshark, sqlmap, John the Ripper, binwalk, theHarvester, dnsrecon, Volatility, Autopsy
Operating Systems	Kali Linux, Parrot OS, Linux (from-source / LFS), Windows
Programming & Cloud	Python, Bash, JavaScript, HTML5, Git, DevSecOps, Google Cloud Platform (IAM, VPC, Compute), AWS

PROFESSIONAL EXPERIENCE

Founder & Director — RAKSHANEX TECHNOLOGIES (Self-employed) Mar 2026 – Present
India · Remote

- Founded and lead a cybersecurity company spanning **offensive security**, **secure operating systems**, **digital forensics**, and **space-defense research**.
- Design and research **high-assurance software systems** focused on secure computing and cyber defense.
- Shipped **3+ independent security products** (OmniCore OS, AgentTrace, RUDRA) spanning OS architecture, DFIR tooling, and systems programming.

Official Cyber Volunteer — Government of India (Apprenticeship) Jul 2024 – Present
India · Remote

- Conduct **cyber-awareness programs** and help organizations mitigate cybersecurity risks under a national cyber-safety initiative.
- Support **incident response and digital investigations** for cyber-related incidents.

Google Cloud Computing Foundations Intern — SmartInternz Jan 2025 – Mar 2025

- Applied cloud concepts (IaaS/PaaS/SaaS), GCP architecture, **IAM, VPC, and cloud security fundamentals**.

Salesforce Developer Virtual Intern — SmartInternz Dec 2023 – Jan 2024

- Built Salesforce apps with **Lightning Web Components and Apex**, including secure process-automation workflows.

KEY PROJECTS

OmniCore OS — Sovereign Hardened Linux Distribution (Creator) github.com/rakshanex

- Built a fully-branded, security-hardened Linux OS **from source (LFS)** with a custom hardened kernel (SELinux, IMA/EVM, KASLR, Lockdown, module signing).
- Delivered a dark XFCE desktop, custom Control Center app, branded browser, bootable ISO, and **GPG-signed APT repository**; verified end-to-end boot in QEMU.

AgentTrace — DFIR for AI-Agent Security Incidents (Author) github.com/rakshanex/agenttrace

- Local-first, zero-dependency DFIR tool for **forensic reconstruction of AI-agent incidents**, with integrity and chain-of-custody aligned to **MITRE ATLAS and EU AI Act Art. 12**.

RUDRA — Systems Programming Language (Author) github.com/rakshanex/rudra

- Designed a fast, safe, approachable systems programming language, released as **free-to-use binaries**.

PUBLISHED BOOKS (AUTHOR)

- ZERO ANONYMITY: Every Criminal Leaves a Trace** — 451-page cyber-forensics playbook for law-enforcement & intelligence agencies — ISBN 978-93-6012-603-2
- Electronic Evidence and Cyber Crime Investigation** — ISBN 978-93-5679-872-4
- Hacker's Shadow** — ISBN 978-93-5655-516-7
- The Practical Guide to Cloud Security** — ISBN 978-93-5659-937-6

ACHIEVEMENTS

- Global Top 145 on TryHackMe** (of millions of users) for practical cybersecurity challenge solving.
- CompTIA PenTest+** certified with **50+ cybersecurity certifications** from EC-Council, Cisco, Google, IBM, and universities.

- Earned **TryHackMe Security Analyst Level 1 (SAL1)** — a one-year, hands-on SOC analyst certification path (Sep 2026).
- Author of **four cybersecurity books** and **Founder & Director of RAKSHANEX TECHNOLOGIES**.

CERTIFICATIONS (SELECTED)

Flagship: **Security Analyst Level 1 (SAL1)** — TryHackMe (Sep 2026) · **CompTIA PenTest+**

Offensive Security: Offensive Pentesting, Jr Penetration Tester, Red Teaming, Web Application Penetration Testing, Cyber Security & Ethical Hacking – Advanced, Ethical Hacking Essentials & Android Bug Bounty Hunting — TryHackMe / EC-Council / GUVI

Defensive & DFIR: SOC Level 1, SOC Level 2, Security Engineer, Cyber Defense, DevSecOps, Digital Forensics Essentials (EC-Council), Cyber Threat Management (Cisco) — TryHackMe / EC-Council / Cisco

Cloud Security: Attacking & Defending AWS (TryHackMe), Implement Cloud Security Fundamentals on Google Cloud, Google Cloud Computing Foundations, AWS Cloud Practitioner Prep — Google / TryHackMe

Academic & Foundations: Cybersecurity for Everyone (Univ. of Maryland), Cyber Security Fundamentals (Univ. of London), Cybercrime (Royal Holloway, Univ. of London), Cybersecurity Fundamentals (IBM), Introduction to Critical Infrastructure Protection (OPSWAT)

Simulations & Other: Cybersecurity Analyst Job Simulation (Forge/Tata), Automation with Python & PowerShell for Cybersecurity (LinkedIn), Python Essentials (Cisco), Blockchain Basics (Cyfrin), AI Fundamentals (Google) — 50+ certifications total

EDUCATION

Intermediate (12th) — Shree Sundar High School, Muktapur	2019 – 2022
Secondary (10th) — Shree Sundar High School, Muktapur	2017 – 2019