LAKSHIT VERMA

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SKILLS

Languages: Python, C, C++, Go, TypeScript, Rust, Bash Scripting
Security: Burp Suite, IDA Pro, Ghidra, Wireshark, GDB, Nmap, OWASP Top 10, MITRE ATT&CK
Technologies: Git, Docker, GitHub Actions, Vercel, Cloudflare Workers, Railway

TECHNICAL EXPERIENCE

Software Engineer May 2026 - August 2026
Google Summer of Code (GSoC) under Mandiant Remote

- Extended the FLOSS malware string extraction framework with features derived from an experimental branch.
- Implemented a cross-platform PE/ELF/Mach-O executable parser for extracting binary metadata, sections and functions.
- Analyzed 150K+ malware samples to automate creating library string databases with CI/CD, slashing build times by 95%.
- Shipped a graphical web interface to visualize the tool's output reaching 100% CLI feature parity.

Research Intern September 2025 - June 2026
Schneider Electric and MAHE Manipal, Karnataka, India

- Built an AI AppSec platform with 329K+ CVEs and 3.3K+ attack chains, coupling SAST, binary analysis and exploit testing.
- Cut complex audits by 12x, automating ATT&CK → D3FEND correlation, SARIF export, and interactive threat graphs.
- Shipped a regex-based reviewer at 3000 files/sec with 1000+ rules, flagging 23+ CWE classes with no API cost.
- Automated binary analysis with a sandbox and Radare2, with a confirm-patch-verify loop for agent-suggested fixes.

Security Engineer Intern March 2026 - May 2026
NoHack Labs Remote

- Identified 20+ vulnerabilities including 5 critical issues using AI-assisted SAST and manual verification in OpenClaw.
- Delivered detailed VAPT documentation for scanned applications with extensive remediation guides for faster issue resolution.

Software Engineer May 2025 - August 2025
Code for GoodTech Dedicated Mentoring Program Remote

- Created a FastAPI backend to parse and bulk-upload XLSForm files for validation, management and deletion.
- Deployed a modular Angular frontend with inline errors, reducing file validation and remediation time by 4x.
- Implemented comprehensive testing for frontend and backend components, leading to code coverage of over 72%.

Board Member and Forensics Subsystem Head Jan 2024 - Aug 2026
Cryptonite - Academic Cybersecurity Team On-Site

- Competed in weekly international CTF competitions, maintaining the team's top 3 national ranking for 2+ years.
- Planned, created and executed 10+ weeks of training material for junior team members spanning 2 domains.
- Authored 5+ security exercises for the team's flagship, international-level CTF with 3,500+ participants.

ACHIEVEMENTS

- 1st Place, Smart India Hackathon 2024 held at IIT Jammu. **Dec 2024**
- 1st Place, ISEA-ISAP CTF hackathon held at IIT Madras. **Jan 2026**
- 1st Place, GIT x IITB CTF sponsored by IIT Bombay Trust Lab. **May 2025**
- Awarded a Linux Foundation Training (LiFT) Scholarship, one of 500 recipients worldwide. **June 2026**

PROJECTS

Subidx | **GitHub** | **Live:** Go-based subdomain enumerator that tails Certificate Transparency logs, pins log keys, verifies Merkle inclusion proofs, and stores every hostname in Pebble with crash-safe watermarks. 50ms apex queries on 75K-record indexes, 113K+ hostnames from a 90-second live tail, served behind a rate-limited public search API.

Supplicant | **GitHub:** Python-based supply-chain security diff scanner. Compares each version bump to package's own release history, flagging anything that breaks patterns, rebuilding deleted versions from CDN archives. Full security-scored cold diffs with live vulnerability checks run in <2s.

Naksheap | **GitHub** | **Live:** Rust heap parser for analysis of cross-platform crash dumps. Rebuilds the live heap of a stripped, optimized binary from its core dump, locating objects, allocations and pointers. Recovered 42,000 objects and 63,000 pointers from a 105 MB core dump in 0.4 seconds, over 100,000 objects per second.

Agora | **GitHub:** Multi-agent audit harness where 4 adversarial LLM agents (finder, killer, judge, exploit) debate findings on an append-only message board and prove survivors with sandboxed PoCs. A 50-minute run at 3M tokens yielded 35 candidates and 5 crashes, surfacing 2+ heap overflows and out-of-bounds stack writes.

EDUCATION

Manipal Institute of Technology, Manipal July 2023 - August 2027
B.Tech in Electronics Engineering, Minor in Computing