

LAKSHIT VERMA

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SKILLS

Languages: Python, C, C++, JavaScript, TypeScript, Rust, Bash Scripting

Frameworks: React, Next.js, FastAPI, Node.js, Tailwind CSS, Flask, HTML, CSS

Technologies: MongoDB, REST API, Git, Docker, Makefile, GitHub Actions, Vercel, Cloudflare Workers, Railway

Security: Radare, IDA, Wireshark, Volatility, GDB, BurpSuite, Nmap, OWASP Top 10, MITRE ATT&CK, SAST, DAST

TECHNICAL EXPERIENCE

Software Engineer at Mandiant

May 2026 - Present

Google Summer of Code

Remote

- Extending the malware string analysis project FLOSS to use the techniques in the experimental QuantumStrand branch.
- Implementing Cross-platform binary executable parsing with section-aware extraction of metadata important to malware analysts.
- Building a React GUI deployed to GitHub Pages capable of handling 100K+ string JSON files with no performance bottlenecks.
- Designing CI/CD for weekly builds of 25 libraries to keep string databases updated, replacing lengthy manual builds.

Security Engineer Intern

March 2026 - Present

NoHack Labs

Remote (Part-time)

- Conducted SAST assessments on 5+ applications, identifying vulnerabilities and testing real-world attack scenarios.
- Delivered VAPT documentation for each application with extensive remediation guides for faster issue resolution.
- Retriaged 50+ discovered vulnerabilities through agentic workflows to align their severity and scope.

Undergraduate Researcher

September 2025 - Present

Dr. T.M.A. Pai Endowment Chair

Manipal, Karnataka, India

- Working under Senior Professor Dr. Manohara Pai and Schneider Electric on AI-enabled security analysis and test case generation.
- Built a novel framework via LLMs to automatically parse CVE, CWE and MITRE ATT&CK databases across 335K+ records.
- Automated binary analysis using Radare with exploit generation and sandboxed verification in controlled environments.

Software Engineer at Dhvani RIS

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 on Render.
- Engineered an XLSForm parsing pipeline with schema validation catching structural errors before any writes to MongoDB Atlas.
- Built an Angular frontend for batch uploads with live previews, inline error reporting, and real-time async progress tracking.
- Tracked 8 latency metrics (778ms cold start, 1.4-4s file validation, 5-5.4s form parsing) and auto-publishing results.

ACHIEVEMENTS

- Won 1st Place in the Smart India Hackathon a under problem statement given by NTRO, Govt of India. Dec 2024
- Won 2nd Place in the MAHE Innovation Centre and the Finova Club's SoftLaunch Hackathon. April 2025
- Won 1st Place in the GITxIITB Capture the Flag (CTF) held by KLS GIT Belagavi and IIT Bombay Trust Lab. May 2025
- Won 1st Place in the ISEA-ISAP cybersecurity conference's hardware security hackathon organized at IIT Madras. Jan 2026

PROJECTS

moomer: Rust application for capturing and interactively viewing high-resolution screenshots on macOS. Provides a zoomable, pannable view of the captured screen, integrated via AppleScript to manage window transitions and restore previous apps.

NiteWatch: Digital Forensics tool for Linux filesystem recovery. Parses from raw bytes with no external libraries used, reconstructs B+ trees, and restores deleted files with full metadata. Uses PyQt GUI for visualizing inode structures and superblock parsing.

MFT Parser: Cross-platform C++ CLI for processing Windows artifacts with metadata extraction and deleted file recovery. Uses a portable CMake-based build system with recursive artifact detection.

InstaFuel Assistant: Specialized AI assistant for a Fitness brand that uses RAG architecture to fetch product listings relevant to user requirement. Deployed using Railway for backend and Qdrant as vector database.

POSITIONS OF RESPONSIBILITY

Board Member and Forensics Subsystem Head

Team Cryptonite - Major Student Project

- Took part in weekly cybersecurity contests (CTFs) leading to the team finishing 3rd nationally in 2024 and 2025.
- Trained 10+ Junior Members in security techniques, tools, and methodologies, enhancing the team's overall skill set.
- Won First Place in 4 on-site national level security contests and hackathons across the country.

EDUCATION

Manipal Institute of Technology, Manipal

July 2023 - August 2027

Bachelor of Technology in Electronics Engineering (Minor in Computing)