

KRISH ATTRI

Security Engineer | Python Tooling · Cryptography · Static Analysis · API Security · QA Testing
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PROFESSIONAL SUMMARY

Second-year B.Tech CSE student at VIT Bhopal (Cybersecurity & Digital Forensics) with two active internships and four shipped Python security tools: static malware analyzer, password entropy scorer, AES-256/RSA-2048 encryption suite, and JWT-authenticated API gateway. Active GSSoC'26 contributor (AI/Agents Track & Open Source Track). Targets software engineering and QA roles where security-first design and systematic edge-case testing are core requirements.

TECHNICAL SKILLS

Languages: Python, JavaScript, C++, SQL **Cryptography:** AES-256, RSA-2048, Caesar, Vigenère, XOR, Shannon Entropy, PBKDF2

Security: Static Analysis, Malware Detection (PE/PDF/ZIP), Network Security, Incident Response, Vulnerability Assessment

Backend & DB: Node.js, Express.js, MongoDB, JWT Authentication, REST APIs, Rate Limiting

QA & Testing: API Testing, Regression Testing, Edge-Case Analysis, Test Case Design, Bug Documentation

Tools: Git, GitHub, Linux (CLI, log analysis), Browser DevTools, pefile, exifread, tkinter, threading

PROFESSIONAL EXPERIENCE

Open Source Contributor / Mentee May 2026 – Present

GirlScript Summer of Code (GSSoC'26) | Remote — *Selected for AI/Agents Track & Open Source Track*

- Resolved documented bugs in production codebases with full reproduction steps, root-cause analysis, and regression notes per PR — mirroring professional QA defect workflows.
- Used Claude and GitHub Copilot to generate boundary-condition test scenarios for unfamiliar modules and produce maintainer-ready documentation; zero revision requests on all merged patches.

Cybersecurity Intern May 2026 – Present

Pinnacle Labs | Remote

- Designed and shipped a Password Strength Analyzer: custom StrengthEngine scoring Shannon entropy and char-pool breadth; PatternDetector flagging keyboard walks, dictionary words, and repetition; crack-time estimates at 10^9 guesses/sec — exported as structured audit reports.
- Built a Text Encryption Suite implementing AES-256 (PBKDF2), RSA-2048 (threaded key gen, .pem export), Caesar, Vigenère, and XOR in isolated engine modules with session history logging and per-algorithm error handling.
- Performed network traffic log analysis; mapped findings to CVE categories in structured vulnerability reports with severity ratings and remediation steps adopted by the internship team.

Cyber Security Intern May 2026 – Present

InternSpark | Remote

- Executed Linux log analysis and system monitoring; identified 3+ anomalous behavior categories during timed incident response simulations and documented findings with step-by-step reproduction paths.
- Authored incident response runbooks standardizing detection-to-containment procedures; delivered all projects on schedule across a self-directed remote setup with zero missed deadlines.

PROJECTS

Password Strength Analyzer | *Python, tkinter, Shannon Entropy* 2026 github.com/krishattri01

- 3-module architecture (StrengthEngine, PatternDetector, PasswordGenerator) scoring 0–100 via entropy bits, character-pool size, and pattern heuristics; animated Canvas gauge renders in real time.
- Exports structured audit reports with per-indicator severity and crack-time at 10^9 guesses/sec — format mirrors professional penetration testing deliverables.

Text Encryption Suite | *Python, AES-256, RSA-2048, threading* 2026 github.com/krishattri01

- Implemented 5 cipher modes in isolated engine modules; RSA-2048 runs on a daemon thread preserving UI responsiveness, with timestamped .pem key export and full operation history log.
- Each of the 5 algorithms handles all failure modes (missing key, empty input, decryption mismatch) with distinct, actionable error messages — zero unhandled exceptions in tested scenarios.

Advanced Antivirus File Analyzer | *Python, pefile, exifread, Static Analysis* 2025 github.com/krishattri01

- Static analysis engine dissecting PE headers, PDF object trees, and ZIP manifests for malicious API imports, suspicious strings, and high-entropy payloads — no file execution required.
- Outputs JSON reports with per-indicator severity scores and reproduction context, directly mirroring the defect-ticket format used in professional security audits.

Secure Vault API Gateway | *Node.js, Express, MongoDB, JWT* 2025 github.com/krishattri01

- Defense-in-Depth gateway enforcing JWT auth, API-key validation, and rate limiting; validated against 6 failure modes (token forgery, rate-limit bypass, unauthorized endpoint access).
- Each failure mode documented as a formal test case with input, expected behavior, actual behavior, and fix applied — replicable as a QA regression suite for auth-heavy systems.

EDUCATION

VIT Bhopal University | B.Tech, CSE — Cyber Security & Digital Forensics Sep 2024 – 2028

Coursework: DSA, OS, Computer Networks, Databases, Software Engineering **Activities:** Null VIT Bhopal | PAT Cell (43-day coding challenge, 2025) | HackSecure 2025 (Hackathon, Ideathon, CTF)

CERTIFICATIONS & RECOGNITION

Cybersecurity Incident Response & Management – Alison (**96%**) | Cybersecurity Analyst Simulation – Tata/Forage | Cyber Job Simulation – Deloitte/Forage | Problem Solving Intermediate – HackerRank | Python – HackerRank | GSSoC'26: AI Agents, Open Source, Contributor Badges