

AKSHAY RAJHANS

7678296236 — Email — LinkedIn — GitHub — LeetCode

Summary

Software engineering undergraduate with hands-on internship experience across full-stack web development, REST API design, and cybersecurity tooling. Proficient in Python, Go, and React.js; shipped production features that raised test coverage 85%+, tripled API throughput, and delivered a concurrent security scanner used in real penetration-testing workflows.

Experience

Resumit AI

resumit-ai.xyz — Founder

Remote

2026

- Founded and independently built an AI-powered resume analyzer that scores resumes against ATS criteria and generates section-by-section improvement feedback.
- Designed and shipped the full product solo: frontend, backend, and LLM-based analysis pipeline.
- Owned the entire deployment stack end-to-end – domain registration, nameserver/DNS configuration, and reverse proxy setup – gaining hands-on infrastructure experience beyond application code.

CSIR – National Physical Laboratory

Software Engineering Intern

New Delhi, India

Jun. 2026 – Aug. 2026

- Migrated a monolithic UI to React.js across 12+ reusable components, cutting average page load time by ~35%.
- Authored 500+ pytest unit tests, raising REST API test coverage from under 10% to 85%+.
- Refactored a synchronous Django codebase to async (Python asyncio), achieving a ~3× improvement in request throughput under 200+ concurrent users.
- Deployed rate-limiting and IP-filtering middleware across 10+ API endpoints, cutting unauthorized access attempts by 90%+.

Projects

AkRecon — Web Reconnaissance CLI

GitHub

Go, REST, Penetration Testing

Jun. 2026

- Built a cross-platform Go CLI unifying directory busting, subdomain enumeration, and TLS/security-header auditing into a single zero-dependency binary embedding 4,700+ SecLists paths.
- Engineered a concurrent HTTP scanning engine (up to 100 parallel workers) with a response-delta algorithm for high-precision hidden-parameter discovery, integrated with Burp Suite/OWASP ZAP workflows.

HashCracker Pro — Hash Lookup Engine

HuggingFace Space

Python, FastAPI, Cryptography

Nov. 2025

- Indexed 65.1M passwords for MD5/SHA-1 lookup, cutting brute-force scan time from 5+ minutes to under 300ms (1,000× speedup) via in-memory caching and pre-hashed B-tree indexing.
- Shipped a FastAPI REST API and web UI for real-time hash analysis, deployed to HuggingFace Spaces with concurrent multi-user I/O.

Process Integrity Auditor — Forensic Tool

Windows Forensics Utility

Python, Windows Internals

May 2025

- Built a 3-stage memory-forensics pipeline (dumping, string extraction, signature isolation) with Authenticode verification, cutting manual incident-triage time by ~60%.

Technical Skills

Languages: Python, Go, C/C++, SQL, JavaScript, HTML/CSS

Frameworks: React.js, FastAPI, Django, Django REST Framework, asyncio, pytest

Security: Penetration Testing, Vulnerability Assessment, Memory Forensics, OWASP Top 10

Tools: Git, Docker, Google Cloud Platform, Linux, Nmap, Burp Suite, Wireshark

Education

Maharaja Surajmal Institute of Technology

B.Tech in Information Technology

New Delhi, India

Aug. 2025 – May 2029

Awards

- 1st Place — ClueQuest CTF, Guru Tegh Bahadur Institute of Technology (GTBIT), Delhi
- INMO 2024 Qualified — Indian National Mathematics Olympiad
- Finalist — Delhi Industrial Ideathon 2025