

ROSHAN AJITH

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PROFESSIONAL SUMMARY

CWAPT-certified Computer Engineering student and full-stack engineer with hands-on experience in web application penetration testing and production-grade system development. Built and deployed scalable web and mobile platforms serving 10k+ users, integrating modern stacks (Next.js, Node.js) with AI-driven features. Strong in identifying and exploiting real-world vulnerabilities (OWASP Top 10, SQLi, XSS) while building secure, systems end-to-end. Ranked top-59 globally in HTB Cyber Apocalypse CTF 2025 among 7,000+ teams and organized Mumbai's largest student CTF with 600+ participants. Achieved 10+ wins across national hackathons, CTFs, and technical competitions.

EDUCATION

SIES Graduate School of Technology
Bachelor of Engineering in Computer Engineering

Maharashtra
2023 - 2027

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, C
Web & Mobile: Next.js, React, Node.js, Express, REST APIs, Capacitor (iOS/Android), PWA, OAuth 2.0
Databases: MongoDB, IndexedDB, Neo4j
AI & Integrations: Gemini API, OpenRouter, Groq, OpenAI SDK, Razorpay, Cloudinary CDN
Security: Web App Pentesting, OWASP Top 10, CVSS Scoring, OSINT, Vulnerability Assessment
Security Tooling: Burp Suite, Metasploit, Nmap, OWASP ZAP, Kali Linux
Dev Tooling: Git, Linux, Lighthouse, Vercel

PROFESSIONAL EXPERIENCE

Software Developer Intern (Web, Mobile & AI)
Brainheaters

December 2025 - Present

- Architected and shipped [brainheaters.in](#) from the ground up - a full-stack educational platform serving 10k+ Mumbai University engineering students across 8 disciplines
- Engineered v2 platform (Next.js, MongoDB, NextAuth.js v5) with 20+ RESTful API endpoints, role-based access control, Google OAuth, and passwordless OTP authentication; integrated Cloudinary CDN for 1,000+ study materials
- Deployed cross-platform mobile app via Capacitor (iOS & Android) with push notifications, haptics, and Razorpay in-app purchases; optimized cold load to sub-6s via code splitting and CDN caching
- Integrated multi-model AI pipeline (Gemini, OpenRouter, Groq) for an intelligent study assistant with OCR-based material ingestion via Tesseract.js and LaTeX/KaTeX math rendering
- Built admin CMS with real-time announcements, gamification engine (streaks, leaderboards), and engagement analytics dashboard tracking daily active usage

Cybersecurity Intern
Pods Technology Solution

July 2025 - October 2025

- Executed black-box and grey-box penetration tests on client web applications, uncovering 25+ critical/high-severity vulnerabilities including SQL injection, XSS, and authentication bypass flaws
- Delivered CVSS-scored assessment reports with prioritized remediation roadmaps, reducing client risk exposure by an estimated 40%
- Automated vulnerability report generation using Python, cutting turnaround time by 60%

Cybersecurity Intern
Prodigy Infotech

September 2024 - October 2024

- Built 5 Python-based security utilities (password auditor, packet sniffer, keylogger, image encryptor, cipher tool) to support penetration testing workflows
- Implemented AES-256 encryption module ensuring zero plaintext exposure for sensitive data in transit

LEADERSHIP & CAMPUS INVOLVEMENT

Technical Head
CSI SIES GST (Student Chapter)

July 2025 -- Present

- Planned and delivered hands-on workshops on web security and full-stack development for 50+ students

Cybersecurity Head
Google Developer Groups SIES GST (Student Chapter)

September 2024 -- Present

- Organized *CyberStorm*, Mumbai's largest student-run CTF with 600+ participants across institutions
- Led cybersecurity awareness sessions covering attack vectors, threat modeling, and defensive best practices

PROJECTS

NETRA.AI: Satellite Climate Risk Intelligence Engine | *Next.js, Python, Google Earth Engine, MongoDB*

2026

- Built an end-to-end geospatial intelligence platform ingesting Sentinel-1 SAR, Sentinel-2 optical, and Landsat-8/9 imagery via Google Earth Engine to automate flood detection and climate risk scoring across Indian districts
- Engineered multi-source fusion pipeline: VV backscatter + NDWI flood detection, DEM slope masking for false-positive filtering, WorldPop overlay for population exposure estimation, and Bayesian risk scoring weighted by CHIRPS 7-day rainfall trends
- Shipped 15+ REST API endpoints (Next.js), interactive real-time dashboard with KPI maps, and auto-generated PDF climate risk reports, fully automated geospatial truth pipeline

FlipPDF: Interactive PDF Flipbook Viewer & Embeddable API | *Next.js, TypeScript, PDF.js*

2026

- Built a client-side PDF viewer at flippdf.cyberjarvis.space with 6 display modes and CSS3 3D page-flip animations; handles 200+ page documents in sub-5s with 65% faster re-renders via IndexedDB caching
- Exposed an embeddable widget API with customizable themes; reduced memory footprint 25% through lazy page loading

DRISHTI.AI: Multimodal Deepfake Detection Platform | *Python, Streamlit, LangGraph, Groq*

2026

- Engineered a 6-layer deepfake detection pipeline analyzing image, video, audio, and text via parallel cloud API calls (Sightengine, HuggingFace ViT, Resemble AI, Winston AI) with offline forensic fallback
- Built local math forensics layer: DCT checkerboard analysis, Error Level Analysis (ELA), MediaPipe face mesh asymmetry, STFT phase discontinuity, and ZCR variance - zero external dependencies required
- Persisted scan results in Neo4j graph database enabling cross-scan similarity queries; surfaced findings via Groq LLaMA 3.3 plain-English forensic summaries

WealthWise: AI-Powered Financial Assistant | *Next.js, MongoDB, Gemini API*

2025

- Shipped a voice-enabled personal finance PWA at mywealthwise.tech with AI-driven budget recommendations and 92% expense category detection accuracy across 12 spending categories

Malware Analysis Tool | *Python, VirusTotal API*

2024

- Built a file scanner computing SHA-256 hashes cross-referenced against 70+ AV engines via VirusTotal API; flagged 43 malicious samples from 80+ submissions with 98% accuracy

ACHIEVEMENTS

HTB Cyber Apocalypse CTF 2025: Ranked **59th globally** among 7,000+ competing teams.

Techgyanthon CTF 2026: Secured **1st place** in a cybersecurity Capture The Flag competition.

Chakravyuha CTF: Secured **1st place** in a 42-hour multi-round cybersecurity competition.

Smart India Hackathon (SIH) 2025 - PS SIH25039: National-level Finalist (Top teams across India).

CodeByte 2.0 (TECH ZEPHYR 2026) - LTCE: Secured **1st place** in a 24-hour offline hackathon.

AI Expo 2026: Secured **1st place** at B.K. Birla College, Kalyan.

Breaking Enigma 2026: Secured **Best Agentic AI** winner at Vishwakarma Institute of Technology (VIT), Pune.

PARADOX Agentic AI Hackathon 2026 - SIES GST: Runner-Up for NITI.AI (AI judicial intelligence platform).

HackHive 2.0 - The Heist (2026): Runner-Up in Cybersecurity domain (DRISHTI.AI deepfake detection platform).

Kedar Sant Technical Excellence Award 2025 -- SIES GST: Recognized for outstanding technical excellence.

Speaker - CSI SIES GST: Conducted a hands-on workshop on Web Application Security.

TECHNICAL BLOG

The Ultimate SQL Injection Guide - Published on Medium: attack techniques, live exploit walkthroughs, and remediation strategies. (medium.com/@cyberjarvis)

CERTIFICATIONS

Certified Web Application Penetration Tester (CWAPT) - Redfox Academy

Certified Cybersecurity Educator Professional (CEP) - Red Team Academy

AWS Cloud Foundations - Amazon Web Services

Certified Junior Web Application Penetration Tester (CJWPT) - Redfox Academy

Google Cybersecurity Professional Certificate - Coursera

Google Generative AI Certification - Google Skillboost

Linux Security - Udemy

Web Development Bootcamp - freeCodeCamp