

Tanush Purwar

Cybersecurity Engineer — Full-Stack Developer — Blockchain Specialist

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Professional Summary

Computer Science Engineering student specializing in cybersecurity, penetration testing, digital forensics, and full-stack development. Expert CTF competitor leading "Obsidian Howlers" team (Rank 13 India, 222 globally). Proven expertise in secure application development, vulnerability assessment, blockchain development, smart contract auditing, and enterprise software solutions. Strong leadership experience managing technical teams, securing corporate sponsorships, and delivering mission-critical applications.

Education

B.Tech in Computer Science & Engineering

Nov 2022 – May 2026

Maharaja Agrasen Institute of Technology, Delhi

CGPA: 7.9/10.0

Coursework: Cryptography, Network Security, Machine Learning, Compiler Design, DSA, DBMS, Operating Systems Security

Professional Experience

Full-Stack Software Development Intern

June 2024 – August 2024

Indian Oil Corporation Limited

Rajkot, Gujarat

- Developed enterprise pipeline management application (Angular, Node.js, PostgreSQL) for 50+ personnel
- Built real-time monitoring dashboards reducing manual tracking by 75% using Chart.js and WebSocket
- Implemented comprehensive security: RBAC, MFA, input validation, XSS/SQLi protection, JWT authentication
- Conducted penetration testing identifying and remediating 12+ vulnerabilities; established CI/CD pipeline

General Secretary & Lead Cybersecurity Coordinator

May 2024 – Present

BYTE Technical Society, MAIT Delhi

- Led cybersecurity initiatives for 500+ students; organized 15+ workshops (CTFs, ethical hacking bootcamps)
- Secured 2L+ corporate sponsorships; managed 60+ member cross-functional team
- Increased membership by 75% through strategic partnerships; developed internal tools improving efficiency by 40%

Technical Projects

Smart Guard – AI-based Smart Contract Fuzzer — Python, TensorFlow, Solidity, Web3.py, Mythril, Slither

- Developed Imitation Learning Fuzzer using ensemble neural networks for Ethereum vulnerability detection
- Trained ML pipeline on 10K+ transaction sequences; achieved 40% higher code coverage than traditional fuzzers
- Integrated Mythril/Slither for reentrancy, overflow, access control assessment; 92% accuracy processing 500+ contracts

ThothBox – Wireless Security Testing Framework — ESP32, Python, C++, Wireshark, Kali Linux

- Built portable pentesting device for WiFi, Bluetooth, LoRa, Zigbee protocols with 15+ vulnerability modules
- Implemented ML anomaly detection and automated threat classification; 100+ GitHub stars, global adoption

SecureTaskManager – Enterprise Management Platform — Rust, Tauri, Angular, PostgreSQL, Docker

- Developed cross-platform application with zero-trust architecture, end-to-end encryption, RBAC system
- Deployed with Docker/Kubernetes for high availability and scalability

Cybersecurity Achievements

CTF Leadership:

- Captain "Obsidian Howlers" - Rank 13 India, 222 globally
- 25+ international CTF competitions (DEF CON, BSides)
- GoogleCTF 2025: Rank 97/15K+ participants
- nahamconCTF 2025: Rank 26

Hackathon Victories:

- Block-A-Thon Winner at IIT Roorkee Cognizance 2025 - Developed Slashing-as-a-Service AVS on EigenLayer
- Smart India Hackathon 2024 Finalist - Web-scraping tool for OEM vulnerability reporting

Technical Skills

Languages	Rust, Python, Solidity, JS/TS, C++, Java, Go, Assembly
Web Tech	Angular, Node.js, Express.js, Flask, HTML5, CSS3, RESTful APIs
Blockchain	Ethereum, Polygon, Solana, Web3.js, Hardhat, Foundry, IPFS
Security	Kali Linux, Metasploit, Burp Suite, OWASP ZAP, Nmap, Wireshark
Forensics	Autopsy, FTK Imager, Volatility
Database	PostgreSQL, MySQL, MongoDB, Redis
DevOps	Docker, Kubernetes, Jenkins, AWS, GitLab CI/CD
Frameworks	NIST, OWASP, MITRE ATT&CK

Professional Certifications

- **Certified Ethical Hacker (CEH) v12** – EC-Council & NSDC (2027)
- **OSForensics Triage (OSFTC)** – PassMark (Aug 2025-2027)
- **Cybersecurity Foundations** – Oeson Learning™ (Jul 2025)
- **Angular Development & UI/UX** – Internshala & NSDC
- **CompTIA Security+** – In Progress
- **CISSP Associate** – (ISC)² In Progress

Languages

English: Professional **Hindi:** Native