

Abhinav Patel

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Summary

Cybersecurity undergraduate with ISRO internship experience, contributing to 5+ projects in threat intelligence, and penetration testing. Proficient in offensive security tools, vulnerability research, and ML-driven threat detection.

Education

UPES

B.Tech – Computer Science & Engineering

Dehradun , India

August 2023 – Present

KhelGaon Public School

Senior Secondary School

Prayagraj , India

2022

Skills

Languages : C , Python , JavaScript , Rust , Java

Frameworks : Scikit, NLTK, SpaCy, TensorFlow, Keras, Django, Flask, NodeJS

Cybersecurity Tools : Nmap , Burp Suite , Wireshark , Metasploit , ELK stack

Miscellaneous : Docker , Git/GitHub , Kubernetes , SQL , MongoDB

Experience

Indian Space Research Organisation | 10 weeks

Ahmedabad , India

Security Engineering Intern

June 2025– August 2025

- Engineered automated mock drills for 7+ cyberattack scenarios, improving incident response readiness by 30%.
- Deployed a platform analysing 100+ daily feeds, reducing threat detection time by 20%.
- Enhanced playbooks with contextual threat data for faster containment of high-severity alerts.

Sentienta Quality AI | 8 weeks

Remote

Cybersecurity Intern

January 2026 – February 2026

- Developed robust ML training pipelines for drone software operating in resource-constrained environments.
- Led comprehensive threat modelling & VAPT on 5+ embedded IoT components for internal security.
- Designed and implemented an automated testing framework to prevent security flaws in IoT systems.

Projects

DOME – Domain Observation & Malicious Entity Detection

[gh.com/b1tw1z/dome](https://github.com/b1tw1z/dome)

- Engineered a malicious domain detection model using Bi-LSTM, Random Forest, & XGBoost with 94%+ accuracy.
- Built FastAPI backend and React dashboard for efficient batch scanning and live threat visualization.

OSINT Reconnaissance Framework

[gh.com/b1tw1z/argus](https://github.com/b1tw1z/argus)

- Developed a scalable OSINT tool aggregating data from domains, emails, IPs, and usernames.
- Automated enumeration, cutting manual effort by 40%.

Context-Aware Centralized Firewall

[gh.com/diyemail01/ccaf](https://github.com/diyemail01/ccaf)

- Designed a context-aware firewall reducing policy violations by over 95% through dynamic rules.
- Enhanced network security by lowering simulated intrusion attempts by 60% in testing.

Research and Publications

- ML for Real-Time Threat Detection
- Palm Vein Recognition Using Near Infrared Imaging & CNN Based Feature Extraction for Biometric Authentication
- Architectural Integration and Strategic Risk Management of PQC in Hybrid Enterprise Networks

Technical Certifications

- Intro to Programming, Kaggle
- ISC2 Certified in Cybersecurity, ISC2
- Google Cybersecurity, Coursera
- Google Cloud Career Practitioner Pathway, GDG
- Intro to Version Control and GitHub, MLSA
- Node.js Certification Course, Scaler