

Manan Punatu

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SUMMARY

Dedicated Cybersecurity Enthusiast skilled in Java, Python, and C, with strong expertise in offensive and defensive security. Experienced in penetration testing, vulnerability assessment, network defense, and incident response. Eager to contribute by identifying vulnerabilities, enhancing resilience, and developing secure solutions through teamwork and continuous learning.

EDUCATION

DIT University	CGPA: 7.55
<i>Bachelor of Technology in Computer Science and Engineering</i>	<i>Graduation Date: May 2025</i>

DAV Lakkar Bazar	Percentage: 94.8
<i>Senior Secondary School</i>	<i>Graduation Date: Apr 2021</i>

SKILLS

- **Programming:** Java, Python, C, HTML/CSS/JavaScript, MySQL
- **Security Tools:** Wireshark, Nmap, SQLmap, Burp Suite, Metasploit, Ghidra, Postman, Sleuth Kit, Autopsy
- **Frameworks:** MITRE ATT&CK, OWASP Top 10, NIST CSF, STRIDE Threat Modeling, ISO/IEC 27001
- **Machine Learning:** Scikit-learn, TensorFlow, PyTorch, Keras NumPy, pandas, Matplotlib, OpenCV
- **Operating Systems:** Windows, Linux, MacOS

WORK EXPERIENCE

Security Researcher

Independent / Freelance *May 2025 - Present*

- Conducted penetration testing and vulnerability assessments on web applications, identifying over 4 critical security flaws across multiple high-profile platforms, including Netflix, JioHotstar, and Canva.
- Coordinated with security teams through platforms like HackerOne and Bugcrowd, as well as independently reaching out, to report findings, write detailed reports, track remediation progress, and verify fixes, contributing to enhanced platform security.

Cybersecurity Intern

KGT Solutions *May 2025 - Present*

- Conducted research on Managed Security Operations Center (SOC) with 24/7 monitoring, real-time threat intelligence, proactive threat hunting, and comprehensive incident response and forensic investigation services, developing recommendations for defensive solutions to enhance client security frameworks.

PROJECT EXPERIENCE

IDPS with Advanced Machine Learning

Cybersecurity | Machine Learning (ML) | Python

- Developed an Intrusion Detection and Prevention System (IDPS) using FastAPI, Scapy, and a Res-CNN model with Reptile++ meta-learning, achieving 98% anomaly detection accuracy on 54 network features, processing 10 packets/second, and enabling real-time IP management with Snort on Windows.

ML-Firewall: RandomForest Firewall Automation

Cybersecurity | Machine Learning (ML) | Python

- Developed an automated firewall management system using a RandomForest classifier, achieving 95% accuracy in detecting and mitigating network threats on 10 critical features, with real-time diagnostics via comprehensive logging for enhanced security.

LeafLens: Leaf Identification System

Machine Learning (ML) | Python | Bash

- Engineered a leaf identification system using an Xception model, achieving over 90% accuracy across 83 species and 10,000+ images, with real-time camera integration for enhanced ecological monitoring and user engagement.

ACHIEVEMENTS

- Secured Top 50 position in NCIIPC-AICTE Pentathlon 2025 Grand Finale (36 hours, offline), competing against 200 finalists selected from over 22,000+ participants in a national critical infrastructure and advanced pentesting CTF.

CERTIFICATIONS

Google Cybersecurity Specialization | Ethical Hacking Essentials (EHE) | Digital Forensics Essentials (DFE) | Complete Ethical Hacking Bootcamp (Zero to Mastery) | Postman API Fundamentals | Introduction to Cybersecurity