Jagadish Tripathy

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# SUMMARY

Focused cybersecurity professional with expertise in Vulnerability Assessment and Penetration Testing (VAPT), identifying and exploiting critical system weaknesses. Skilled in using Metasploit, Nmap, Burp Suite, and advanced manual techniques. Adept at producing PoC-driven assessments and actionable security hardening strategies.

# EDUCATION

**Synergy Institute of Engineering & Technology, Dhenkanal** *Aug 2023 - Jul 2027*

Bachelor of Technology, Computer Science

**Siddhibinayak Science & Higher Secondary Education, Angul** *Jul 2021 - Apr 2023*

Information Technology, Mathematics, Physics, chemistry

* **Percentage**:70%

# EXPERIENCE

**CodTech IT Solutions** *Researcher & Ethical Hacking Intern* (Hyderabad) *Sep 2024 - Oct 2024*

* Conducted comprehensive penetration tests on Windows and Linux systems, exploiting privilege escalation flaws and critical misconfigurations using Metasploit and manual techniques.
* Developed technical exploitation reports with Proof of Concept (PoC), providing prioritized risk assessments and remediation strategies to harden infrastructure security.

**Yhills Edutech private limited** *Penetration Tester Intern* (Uttar Pradesh) *Jul 2024 - Aug 2024*

* Executed advanced vulnerability assessments and red-team simulations on enterprise networks and web applications, aligning attack methodologies with OWASP Top 10 and MITRE ATT&CK standards.
* Delivered detailed forensic analysis and crafted actionable security roadmaps to address identified vulnerabilities, significantly improving system resilience against sophisticated threats.

# SKILLS

* **Penetration Testing Tools:** Burp Suite, Metasploit, Nmap, Nikto, SpiderFoot, Dirb, SQLMap
* **Exploitation & Techniques:** Manual Testing, Privilege Escalation (Windows/Linux), SQL Injection, XSS, OS Command Injection
* **Reconnaissance & OSINT:** Google Dorking, Shodan, Whois, Nslookup, TheHarvester
* **Operating Systems & Platforms:** Kali Linux, Parrot OS, Windows, Debian-based Linux
* **Programming:** Python, Django, C, Java, JavaScript
* **Networking & Protocols:** TCP/IP, DNS, HTTP/HTTPS, Packet Inspection, Wireshark
* **Reporting & Documentation:** Vulnerability Reporting, Proof of Concept (PoC), Risk Assessment, Mitigation Strategy Writing

# PROJECTS

**TinyAI-** [*GitHub Link*](https://github.com/jagdishtripathy/TinyAI) *June 2025*

* Built an AI-powered cybersecurity assistant using LlamaCpp and FAISS for contextual threat analysis, SIEM log triage, and Wazuh alert interpretation.
* Integrated intent detection, user profiling, and memory modules to support real-time responses for pentesting and SOC log parsing.
* Enabled online/offline chat with **OpenHermes-2.5 Mistral-7B** and enrichment via **DuckDuckGo**, enhancing analyst decision-making.

**CTF Helper Toolkit-**[*GitHub Link*](https://github.com/jagdishtripathy/ctf-helper)*Apr 2025*

* Architected a modular, extensible CLI-based cybersecurity toolkit to streamline CTF workflows, incorporating automation for decoding schemes, JWT exploitation, steganographic analysis, and OSINT reconnaissance.
* Engineered and deployed a Debian-compliant .deb package to facilitate seamless system-wide installation, enabling frictionless integration into offensive security environments.

**Email Phishing Detector-**[*GitHub Link*](https://github.com/jagdishtripathy/Email-phishing-detector/)*Dec 2024*

* Developed an automated phishing detection system, integrating VirusTotal API for real-time URL scanning, threat classification, and risk assessment.
* Implemented an intelligent quarantine and alerting mechanism, leveraging behavioral analysis and threat intelligence to isolate threats and notify the security team.

# HONORS & AWARDS

**BPUT Tech Carnival** — Showcasing strategic innovation & execution. — [*HONOR*](https://www.linkedin.com/posts/jagadishtripathy_cybersecurity-bputcarnival-ideathon-activity-7262488460458950656-sqt6?utm_source=share&utm_medium=member_desktop&rcm=ACoAAFKiAs0BAe9wLHFuZ--NIXnUmy7QpUMDKLo) *Nov 2024*

**SYNBOT** — An AI assistant using Google Gemini API for SIET, Dhenkanal queries. — [*HONOR*](https://www.linkedin.com/posts/jagadishtripathy_excited-to-share-our-latest-project-synbot-activity-7267039096970104835-WAES?utm_source=share&utm_medium=member_desktop&rcm=ACoAAFKiAs0BAe9wLHFuZ--NIXnUmy7QpUMDKLo)*Dec 2023*

# CERTIFICATIONS

**Google** (Google Cybersecurity) — [*link*](https://www.credly.com/badges/47ac154d-e703-46e9-b33f-f28c53dcd13b/public_url)*Sept 2024*

**Red Hat & IBM** (Linux and Private Cloud Administration) — [*link*](https://www.credly.com/badges/51b90139-214f-4e39-9645-c99d08e1ab4d/public_url) *Oct 2024*

**Certified Ethical Hacker v.12**(packt) — [*link*](https://www.coursera.org/account/accomplishments/specialization/certificate/E8U0L536IAX8) *Apr 2025*