

OMKAR BEHERA

Cyber Security Analyst | System Security Engineer

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PROFESSIONAL SUMMARY

Security-focused software engineer with hands-on experience in application monitoring, observability, and security operations using Dynatrace, spanning corporate IT architecture and defense-sector systems. Skilled in network and web application security testing with Burp Suite, Wireshark, and Nmap, with active hands-on training on TryHackMe. Proven track record improving system accuracy by 30%, reducing manual processes by 40%, and building AI-driven network and threat-analysis tools. Seeking to apply monitoring and threat-detection expertise to a Cyber Security Analyst / System Security Engineer role.

CORE SECURITY & TECHNICAL SKILLS

Security Monitoring & Observability: Dynatrace (application performance monitoring, alerting, observability), security event monitoring, firewall log review, incident documentation

Security Testing Tools: Burp Suite, Wireshark, Nmap, Kali Linux, network traffic analysis

Offensive Security: Ethical hacking fundamentals, OWASP Top 10 vulnerability awareness; studying toward CEH/OSCP

Networking & Systems: TCP/IP, DNS, routing, Linux, Windows Server, corporate IT architecture, application maintenance & alerting

Cloud & Virtualization: AWS, VMware

Programming & Data: Python, Java, C++, SQL, Bash

Hands-on Learning: TryHackMe (ongoing) — practical labs in threat detection, vulnerability assessment, and offensive/defensive security

Other Tools: Git, Arduino, OpenCV, WordPress, Machine Learning

EXPERIENCE

Software Engineer, Apprentice — APMOSYS Technologies

March 2025 – Present

- Monitor application performance, availability, and security events using Dynatrace, correlating alerts across corporate IT architecture to identify anomalies and potential threats.
- Support application maintenance and alerting workflows, triaging incidents and escalating security-relevant findings for remediation.
- Conduct hands-on network and web application security practice using Burp Suite, Wireshark, and Nmap to analyze traffic and identify misconfigurations.
- Actively building offensive/defensive security skills through TryHackMe labs and Kali Linux practice, covering OWASP Top 10 vulnerabilities, threat analysis, and incident response fundamentals.
- Collaborate with engineering teams to document monitoring processes and support system reliability and compliance efforts.

Intern — DRDO, Ministry of Defence, Govt. of India

June 2024 – July 2024

- Developed a microcontroller interface for ammunition systems monitoring, improving data acquisition accuracy by 30% in a high-security defense environment.
- Engineered a radar range calculation interface achieving 95% accuracy under simulated battlefield conditions.
- Built a full-stack website with secure authentication, reducing manual report handling by 40%.

KEY PROJECTS

- NeuroSniffer — AI-powered network traffic analyzer built in Python and Linux for live packet capture and analysis, directly applying skills relevant to network security monitoring.
- Radar Range Calculator — Developed a Python application improving accuracy by 25% and response time by 30% for defense applications.
- Mental Health Prediction System — Built an AI-based screening tool using ML and OpenCV facial recognition with 90%+ accuracy, including real-time emotion detection.

EDUCATION & CERTIFICATIONS

Bachelor of Technology, Computer Software Engineering

Parala Maharaja Engineering College, Berhampur

- TryHackMe — Ongoing practical cybersecurity training (networking, threat detection, offensive/defensive labs)
- Cybersecurity Workshop — IIT Bhubaneswar (2023–2024)
- Data Analyst Certification — IBM (2024), Python & Excel
- ESG Virtual Experience Program — Tata Consultancy Services (2023) | Beginning C++ Programming — Udemy, 80-hour course (2023)

ACHIEVEMENTS & LEADERSHIP

- Reduced debugging time by 25% and processed 10,000+ data points for actionable insights across defense and civilian applications; coordinated placements for 150+ students as Placement Coordinator, BIJU Patnaik University of Technology, raising company participation by 20%.