

MOHAMMED NIYAS NF

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Professional Summary

Results-driven Linux Engineer with nearly 2 years of hands-on experience managing enterprise Oracle Linux and Ubuntu environments across multi-client infrastructures in the UAE. Proven track record in infrastructure automation (Bash, Ansible), proactive incident resolution through SOC/NOC operations, and virtualization platform management (OLVM, OVM, ILOM). Currently pursuing an MSc in Information Security and has independently built a full-stack Network Intrusion Detection System as capstone work. Certified in AWS and Oracle Cloud Infrastructure, actively transitioning towards a cybersecurity-focused engineering role.

Technical Skills

Operating Systems	Oracle Linux, Ubuntu Server, RHEL
Scripting & Automation	Bash, Ansible
Virtualization	OLVM (Oracle Linux VM Manager), Oracle VM (OVM), ILOM
Cloud Platforms	Oracle Cloud Infrastructure (OCI), Amazon Web Services (AWS)
Security & Monitoring	Packet Analysis (Scapy), Network Intrusion Detection, ARP/SYN/DNS Threat Detection, NOC/SOC Incident Management
Development	Python (FastAPI), React, WebSocket, SQLite, REST APIs
ITSM Tools	Strygo Portal, Change Management, Root Cause Analysis
Languages	English (Professional), Malayalam (Native), Tamil (Conversational), Hindi (Basic)

Work Experience

Linux Engineer

Aug 2024 – Present

Gerab System Solutions

Dubai, UAE · Full-time, On-site

- Administer and maintain enterprise **Oracle Linux** and **Ubuntu** server environments across multiple client infrastructures, ensuring high availability, security compliance, and optimized system performance.
- Develop and deploy **Bash** and **Ansible** automation scripts to streamline routine operations, measurably reducing manual intervention and minimizing unplanned downtime.
- Monitor infrastructure health proactively and manage SOC- and NOC-raised incidents via the **Strygo portal**, contributing to faster mean-time-to-resolution (**MTTR**) and consistent SLA adherence.
- Manage and support virtualization platforms including **OLVM, OVM, and ILOM**, ensuring stable VM lifecycle management and efficient resource utilization.
- Maintain **hardened and standardized Linux baselines** across client environments, enforcing security policies, patch schedules, and reducing attack surface.
- Collaborate with cross-functional teams on infrastructure planning, change management, and root-cause analysis of complex system incidents.

Projects

ORION IDS — *Operational Reconnaissance & Intelligent Observation Network* | [GitHub](#)

MSc Capstone

- Designed and built a **full-stack real-time NIDS** with Wireshark-grade live packet capture using **Scapy** in promiscuous mode, covering TCP, UDP, ICMP, ARP, DNS, HTTP, HTTPS, and IPv6.
- Engineered a **stateful rule-based threat detection engine** identifying 9 attack types — ARP Spoofing, SYN Flood, Port Scanning, ICMP Flood, DNS Tunneling, Credential Leakage, Brute Force, Low TTL Anomaly, and Sensitive Port Access — with zero false-positive design for legitimate LAN traffic.
- Built a **5-tier service resolution pipeline** (TLS SNI → DNS → Reverse DNS → IP Prefix → Port) identifying 80+ services (YouTube, WhatsApp, Netflix, Cloudflare, GitHub) without decrypting HTTPS traffic.
- Developed a **FastAPI** backend with WebSocket server streaming live packets to a **React** dashboard at sub-100ms latency, with real-time analytics, alert management, and 14-category traffic classification.
- Integrated **SQLite** persistence for historical forensic queries; implemented simulation mode for rootless development environments.

Education

Master of Science — Information Security (MSc IS)

Jul 2025 – Jul 2027 (*In Progress*)

Indira Gandhi National Open University (IGNOU)

- Coursework: Cybersecurity Fundamentals, Risk Management, Digital Forensics, Network Security, Cloud Security, Secure Systems Design.

Bachelor of Computer Applications (BCA) — Computer Science

2019 – 2022

Brindavan College, Bangalore

- Core subjects: Programming, Data Structures, Databases, Web Development, and Software Engineering.

Certifications

Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate

Oracle

Oracle Cloud Infrastructure 2025 Certified Foundations Associate

Oracle

AWS Certified Cloud Practitioner

Reliable Network Technologies Ltd

Linux Administration: The Complete Linux Bootcamp

Udemy

Professional Bootcamp in UX/UI Design

DesignBoat UI/UX School

Areas of Interest

Linux Infrastructure Security ◊ Cybersecurity Operations (SOC / NOC) ◊ Network Intrusion Detection & Analysis

Cloud Security (AWS / OCI) ◊ Infrastructure Automation ◊ Digital Forensics