ROHIT DINDE

CURRICULUM VITAE · SYSTEMS, CYBERSECURITY & AI ENGINEERING

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1. EXECUTIVE SUMMARY & DELIVERY CREED

> **The Delivery Creed:** "You define the mission; I engineer the solution. From wire-level packet engines and defensive cybersecurity systems to high-concurrency backends and autonomous AI automation — delivered with architectural precision, high velocity, and uncompromising quality."

Rohit Dinde is an opportunistic, high-velocity Software Engineer and Cybersecurity Specialist with deep execution capability in systems programming, network protocol design, defensive cybersecurity automation, and machine learning infrastructure. He specializes in eliminating unnecessary abstractions, engineering directly against fundamental RFC standards, and delivering bulletproof, tested architectures for high-stakes operational environments.

2. TECHNICAL SPECIALIZATIONS & WORKING SURFACE

Systems & Low-Level	Rust (axum, tokio, pcap), C, Python, POSIX Shell/Bash, Linux Internals, Socket Programming, Concurrency, Memory Management
Networking & Wire	TCP/IP, UDP, Ethernet II, ARP, 802.11 Wireless Frame Analysis, Raw pcap Dissection, 5-Tuple Connection Flow Tracking, TCP Stream Reassembly, Scapy, Wireshark
Cybersecurity	Real-Time Threat Detection, SIEM Log Forensics, Normalized Attack Signature Matching (SQLi, XSS, Brute-Force, Directory Traversal), Fail-Closed Architecture, BSSID Hardware Scope Binding, MITRE ATT&CK Mapping, Vulnerability Assessment
Backend & Cloud	FastAPI, Asynchronous Python, WebSockets, RESTful APIs, SQLite, PostgreSQL, Docker, GitHub Actions CI/CD, Oracle Cloud Infrastructure (OCI Certified)
AI & Optimization	LLM Fine-Tuning (Unsloth), OpenAI Triton Kernels, Mixture-of-Experts (MoE) Weight Streaming, Vector Retrieval, Multi-Agent Orchestration

3. PROFESSIONAL EXPERIENCE

Independent Software & Cybersecurity Projects

Sep 2023 – Present · 3 yrs 3 mos (Remote)

— **NDAP (Rust Network Engine):** Engineered a wire-speed packet analysis platform decoding Ethernet, IPv4, IPv6, ARP, TCP, and UDP directly from raw pcap captures without third-party C wrappers. Implemented 5-tuple flow tracking, out-of-order TCP reassembly, and detection rules for port scans, SYN floods, and gratuitous ARP spoofing.

— **LogSentinel (Python/FastAPI):** Developed a self-contained Apache log analyzer with multi-pass percent-decoding normalization to neutralize directory traversal obfuscations (%252e%252e%252f), coupled with a per-IP temporal sliding window in SQLite and live WebSocket alert broadcasting.

- **WiFi Security Audit Lab:** Created a defensive 802.11 security framework enforcing strict fail-closed authorization bounds tied to physical BSSIDs, featuring cumulative append-only evidence persistence backed by 110 automated regression tests.
- **PacketSnifferAnalyzer:** Built a multi-interface network traffic capture suite sharing a unified capture core across a terminal CLI, GUI, and live browser telemetry dashboard.
- **Open Source Contributions (Unsloth & Colibri):** Contributed to open-source acceleration tooling for 2-5x faster LLM fine-tuning with 80% reduced VRAM, and researched pure-C MoE runtimes for running massive models on consumer hardware.

IoTiESG Labs Private Limited — Operations Technical Support

Nov 2025 – Jun 2026 · 8 mos (Pune City, On-site)

- Delivered technical issue resolution via enterprise ticketing platforms, maintaining 100% compliance with strict SLA timelines under operational pressure.
- Handled technical escalations requiring disciplined root-cause analysis (RCA), structured log inspection, and thorough documentation.

WNS — Operation Process Associate

Aug 2024 – Jan 2025 · 6 mos (Pune City, On-site)

- Managed operational processes for a major US Health Insurance client within the Certification Department under high-volume compliance monitoring.

Tech Mahindra — Operation Support

Dec 2023 – Jun 2024 · 7 mos (Pune City, On-site)

- Supported mission-critical utility operations for Adani Electricity serving the Mumbai Metropolitan City with adherence to process, compliance, and quality benchmarks.

4. EDUCATION

Bachelor of Engineering (B.E.) — Computer Engineering

Passing Year: 2025

Savitribai Phule Pune University · Pune, Maharashtra, India

5. VERIFIED LICENSES & CERTIFICATIONS

AIG Shields Up: Cybersecurity Virtual Experience Program — Forage

Issued Aug 2026 · Credential ID: 6a8053306dfcb5ce71e412ff · Verify ↗

Threat analysis simulation for Cyber Defense Unit, CISA publication tracking, vulnerability remediation, and Python decryption scripts.

Mastercard Cybersecurity Virtual Experience Program — Forage

Issued Aug 2026 · Credential ID: 6a8044bbaa694bdf897deb9c · Verify ↗

Security Awareness Team simulation, phishing threat triage, and corporate security risk evaluation.

Claude Code in Action — Anthropic

Issued Apr 2026 · Credential ID: vbxo288vkp79 · Verify ↗

Advanced agentic coding workflows, autonomous code refactoring, and AI-assisted software engineering.

Oracle Certified Professional – OCI Data Science 2025 — Oracle

Issued Oct 2025 · Credential ID: 322561345OCI25DSOCP · Verify ↗

Machine learning lifecycle orchestration, model training pipelines, and distributed cloud computing.

Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate — Oracle

Issued Oct 2025 · Credential ID: 322561345OCI25AICFA · Verify ↗

Oracle Cloud Infrastructure 2025 Certified Foundations Associate — Oracle

Issued Sep 2025 · Expires Sep 2027 · Credential ID: 3225613450C125FNDCFA · Verify ↗

Google Cybersecurity Professional — Coursera

Issued Jul 2025 · Credential ID: 9ACKYX6QATZR · Verify ↗

6. RESEARCH PUBLICATIONS

Anti-Adaptive Harmful Bird Repelling Based on Deep Learning

International Research Journal of Modernization in Engineering Technology and Science (IRJMETS) · Published May 5, 2023

Authored research paper proposing a non-invasive computer vision deep learning model to detect and repel harmful birds from agricultural and critical industrial installations, mitigating biological habituation.

Modern Cyber Warfare & Threat Intelligence Handbook

Technical Security Research Monograph · MITRE ATT&CK Framework

Comprehensive technical threat intelligence report analyzing Russian hybrid cyber operations against critical infrastructure in Ukraine (2022–2023), mapping CERT-UA incident telemetry directly to MITRE ATT&CK techniques.

7. SOCIAL IMPACT & COMMUNITY LEADERSHIP

Measurable track record of community initiative, crisis leadership, environmental restoration, and real-world execution.

ICON	INITIATIVE	ORGANIZATION	TIMELINE	KEY IMPACT METRIC
💼	**Business & Process Exploration** Earn before learn, commercial distribution execution, real-world MBA at age 17	Firecracker & Tender Industry	2017 – 2018	**₹50L+ in transactions** over 7 months
🏥	**COVID Care Centre Volunteer Lead** Led diagnostic testing, patient care coordination, and vaccination drives	Pune Metropolitan Health Dept.	2020 – 2023	**40 youth volunteers led** through pandemic
🎭	**Supporter & Collaborator** Preserving regional folk culture and dramatic art for the next generation	Marathi Theatre (Student Level)	2021 – 2023	Student community cultural preservation
🌳	**Environmental Conservation & Afforestation** Individual planting and open-source backed plantation drives	Tamil Nadu · Pune · DigitalOcean	2019 – Present	**700+ trees planted** individually
💧	**Clean Water Initiative** Drinking water access work in remote	Remote Mountain Areas	Ongoing	Freshwater access & ecological defense

ICON	INITIATIVE	ORGANIZATION	TIMELINE	KEY IMPACT METRIC
	mountain regions affected by development			

8. LIFE ETHOS & PERSONAL DIMENSIONS

🔧 Building Things

The childhood curiosity of dismantling mechanisms that naturally evolved into a life-long systems engineering career.

🏇 Sports & Horse Riding

Rigorous physical discipline, poise, balance, and split-second instinctive decision-making under intense pressure.

🎤 Hip Hop & Rhymes

Rhythmic flow, lyricism, cadence, and the relentless creative drive powering deep 2:00 AM coding sessions.

🌐 Technology Exploration

Curiosity has no off switch — constant hands-on experimentation with runtimes, compilers, and protocols.

🧭 Exploration as Mindset

A default state of mind — venturing into unfamiliar problem spaces, rugged terrain, and novel codebases.

🌳 Nature & Environment

Grounded perspective in natural ecosystems, where the planet's most vital, consequential problems reside.