

Neeraj Jeswani

SYSTEM ENGINEER · MOVING INTO PLATFORM ENGINEERING

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SUMMARY

Infrastructure engineer working between physical on-premise systems and cloud, with production experience at every layer of the stack in the order it was built: hardware and hypervisors, Windows and Linux administration, applications, then containers and orchestration. Currently decomposing a Windows monolith into containerised services and running the multi-GPU inference infrastructure that serves open-weight models behind it. Oracle Cloud Infrastructure delivered as Terraform, observability built rather than bought, and fleet automation across mixed Windows and Linux fleets.

EXPERIENCE

System Engineer | Knovos

Oct 2025 – present
Gandhinagar

Infrastructure and systems engineering across a multi-data-centre cloud and on-premise environment.

- Replaced a commercial monitoring product with a self-hosted multi-region platform built on Prometheus, Grafana, Alertmanager, Blackbox Exporter and nginx with TLS, eliminating the associated licence cost.
- Instrumented 250+ Windows hosts with Windows Exporter and deployed Prometheus in Agent mode per environment, producing a multi-node architecture that scales beyond a single scrape target.
- Delivered OCI infrastructure for multiple data centre migration projects: compute, VCN topology, Security Lists, NSGs and site-to-site IPsec VPN, provisioned entirely as Terraform.
- Integrated LDAP and Postgres into the monitoring stack and implemented Teams and email alert routing, with dashboards covering both cloud and on-premise environments.
- Resolved a vLLM inference workload blocked by RHEL 9 dependency conflicts by containerising it on a custom Ubuntu base image, achieving consistent execution across environments.
- Automated Windows endpoint management through PDQ Deploy and PowerShell, covering inventory scanning, compliance checks and bulk operating system upgrades.
- Supported terabyte-scale data migration over WAN using Raysync within scheduled cutover windows.

System Administrator | WovV Technologies

Jan 2025 – Oct 2025
Vadodara

Server administration, virtualisation, and network and endpoint security.

- Administered CentOS, Ubuntu and Windows Server environments across office and cloud environments.
- Managed identity and access through Active Directory, covering accounts, permissions and group policy.
- Operated VMware ESXi hosts, including virtual machine lifecycle and resource optimisation.
- Automated recurring administrative tasks with Bash and batch scripting, reducing manual handling and error rates.
- Maintained perimeter and endpoint security, including Sophos firewalls, system hardening and vulnerability monitoring.
- Authored internal documentation for build procedures, operational processes and troubleshooting.

Customer Service Specialist | Patterns 247

Jun 2024 – Jan 2025
Vadodara

Client operations support for US real-estate professionals, covering lead management and CRM administration.

- Managed client data and daily operations across Salesforce and Propertybase.
- Built and maintained real-estate websites using WordPress and no-code platforms.
- Recognised as Best Performer of the Month, September 2024.

CORE SKILLS

Cloud & IaC

Oracle Cloud Infrastructure · Terraform · VCN topology · DRG gateways · Site-to-site IPSec · NSGs & Security Lists · IAM / RBAC policy · Object storage governance

Containers & platform

Docker · Multi-stage builds · Kubernetes (CKA in progress) · vLLM multi-GPU inference · Monolith decomposition · Service containerisation

Observability

Prometheus (incl. Agent mode) · Grafana · Alertmanager · Blackbox Exporter · Windows Exporter · Alert routing (Teams, email)

Systems & automation

Linux (RHEL, Ubuntu, CentOS) · Windows Server · VMware ESXi · Active Directory & GPO · PowerShell · Bash · PDQ Deploy · Patch & compliance automation

Networking & security

Network segmentation · Port-level application control · Firewall policy · System hardening · nginx / TLS · Cloudflare

AI-assisted delivery

Claude Code · Codex · Open-weight model deployment · Gemma / Qwen Coder / instruct models · Test and validation generation

SELECTED PROJECTS

OneBox | The production platform serving this page github.com/neerajez/OneBox A single-server, internet-facing platform: nginx terminating TLS as the only public entry point, Prometheus and Grafana behind it, browser-based remote desktops, and nightly encrypted off-site backups verified by an automated restore test. Ingress is restricted to Cloudflare's published ranges at both the cloud firewall and the host firewall chain. Architectural decisions are recorded with the alternatives that were rejected.

Docker · nginx · Prometheus · Grafana · Alertmanager · OCI · Bash

UDPix | A UDP transport protocol for long, lossy links github.com/neerajez/UDPIX TCP throughput collapses on a link with 1% packet loss and 100 ms of latency, however much bandwidth is available, because the congestion window never opens. UDPix moves the window logic, the acknowledgement scheme and the retransmit policy into userspace where they can be tuned for the link. Eight Rust crates: NAT traversal (STUN, TURN, ICE, hole punching), a control plane with auth and session management, selective acknowledgement, and a zero-copy IO path.

Rust · UDP · Congestion control · SACK · NAT traversal · Zero-copy IO

oci-lens | Cloud spend and right-sizing, as a scheduled PDF github.com/neerajez/oci-lens Finance asks where the budget went and which resources can be trimmed. The options were an hour of clicking through the console or a third-party platform we needed ten per cent of. This collects compute, storage and cost data across compartments, runs utilisation, right-sizing and anomaly checks against a catalogue of real OCI shapes, and emails a PDF per compartment on a schedule. The analytics and delivery paths are unit-tested, because the numbers are the product.

Python · OCI SDK · Analytics pipeline · PDF reporting · pytest

oci-a1-hunter | Oracle's request signing, implemented by hand github.com/neerajez/oci-a1-hunter Retries a launch request on a rate-limit-safe schedule until Oracle actually has free ARM capacity, then takes the instance, notifies, and disables its own timer. Written in bash, openssl and curl: it implements Oracle's REST request-signing scheme directly, so there is no SDK, no Python, no root and no third-party code in the hot path. Implementing a signature by hand means understanding it.

Bash · openssl · REST signing · systemd timers · OCI API

Workstation-as-Code | A golden path for a development machine github.com/neerajez/Workstation-as-Code The onboarding problem, solved once. A reproducible Ubuntu environment in Docker carrying a pinned toolchain of Terraform, Ansible, kubectl, cloud CLIs and shell configuration, so a new machine is productive from one clone instead of a day of hand-installing and a week of discovering what was missed. The same artefact every time, for anyone, which is the whole point of a paved road.

Docker · Bash · Terraform · Ansible · kubectl

CERTIFICATIONS

- Oracle Cloud Infrastructure Foundations Associate — Oracle
- CyberOps Associate — Cisco
- Cyber Security and Privacy — Certification
- Certified Kubernetes Administrator (*in progress*) — CNCF

EDUCATION

- Master of Computer Application, Computer Science — ITM Gwalior, CGPA 8.42
- Bachelor of Computer Application, Computer Science — Jiwaji University