TARUN GUPTA

DevOps & Cloud Engineer — Azure · AWS · Kubernetes

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PROFESSIONAL SUMMARY

Sole DevOps/cloud engineer at Nirjai Technologies, owning architecture, security, and delivery for 9 engagements (4 active) across regulated Azure/AWS environments in healthcare, pharma, fintech, and IoT. Designs private Azure landing zones (Bicep), takes validated platforms live on Amazon EKS, ships Kubernetes (AKS) microservices via Helm and Azure Pipelines, and enforces DevSecOps/Zero-Trust hardening.

Key impact: p99 latency **-86%** | lead time **-80%** | manual release steps **-95%** | logging cost **-80%** | observability spend **-45%** | VAPT closure **100%**

CORE TECHNICAL SKILLS

Azure: AKS | ASE v3 | Container Apps | Front Door | WAF | APIM | Key Vault | Private Endpoints | Entra ID | Application Insights (KQL)
AWS: EKS | VPC | EC2 | RDS (PITR) | EFS | ECR | Secrets Manager | CloudWatch | SNS | IAM
CI/CD & Automation: Azure Pipelines | GitHub Actions | Jenkins | OIDC workload-identity federation | SonarQube quality gates | JMeter
Infrastructure as Code (IaC): Bicep | Terraform | CloudFormation | Ansible | ARM Templates
Containers & Orchestration: Kubernetes (AKS, EKS) | Helm | HPA autoscaling | Namespace RBAC | Docker | Docker Compose | kubectl | ACR
Observability & Security: Prometheus | Grafana | ELK Stack | Elastic APM | DevSecOps | Zero-Trust | WireGuard | Wazuh SIEM | TLS 1.3
Systems & Databases: Linux (Ubuntu, AlmaLinux) | Windows Server | Nginx | PostgreSQL | MySQL | SQLite | Python | FastAPI | Bash

WORK EXPERIENCE

Nirjai Technologies Pvt. Ltd. — DevOps Engineer | Delhi, India — 03/2025 – Present

Edge AI Surveillance Infrastructure (Symphonia & Graphicus) — *DevOps Lead* — 05/2026 – Present

- Designed an edge-compute AI surveillance platform now carrying **21** live feeds over a **6.4 km** corridor, after GPU sizing (one NVIDIA RTX PRO 4000 server over 4–6 Jetsons) and planning nine PtP 5 GHz wireless hops.
- Architect YOLOv8/TensorRT inference on NVIDIA DeepStream, containerize PostgreSQL, EMQX (MQTT) and MediaMTX (RTSP/RTMP) with Docker Compose, and enforce Zero-Trust via WireGuard VPN (split-tunneling, strict egress) and Pi-hole DNS sinkholes.

Private Azure Landing Zone & Migration (GATX India) — *Cloud & DevOps Engineer* — 04/2026 – Present

- Codified a private Azure landing zone in Bicep (**4** zoned subnets, deny-all NSGs, Private Endpoints, one Application Gateway WAF), reducing the attack surface to **0** reachable public assets, validated by Microsoft Defender.
- Operate OIDC-federated GitHub Actions and Key Vault references, with **0** standing credentials in code or CI across **30+** deployments/month.
- Migrated **2.8 TB** of on-prem SharePoint data to M365 with **0** data loss via a throttling-aware, multi-threaded Python engine (MSAL, REST APIs) that recovers gracefully from 429/503 tenant responses; integrated MuleSoft APIs over Service Bus and Intune MDM profiles.

Internal IT Zero-Trust & Release Automation (Nirjai, internal) — *DevSecOps & Cloud Engineer* — 03/2025 – Present

- Resolved **26** security-review findings across **37** endpoints/servers by re-architecting a default-deny WireGuard VPN, adding Wazuh SIEM detections, tuning Linux kernels (sysctl), engineering offsite Restic encrypted backups, and automating UFW/Bash rules with Ansible.
- Reduced a client ERP's release cycle **73%** (45 → 12 min) by standardizing Jenkins pipelines with SonarQube quality gates, parallel cached builds and health-checked rollback; the shared library now releases **6+** production apps with no production keys on laptops.

Observability Pipeline & Release Automation (Mankind Pharma) — *DevOps Engineer* — 03/2025 – Present

- Trimmed cloud observability spend **45%** and achieved a **2 min** MTTD by replacing Azure Application Insights with a self-hosted ELK, Prometheus, and Grafana stack, building custom C# Serilog middleware for the Elastic APM cutover.
- Moved lab-app releases onto Jenkins declarative pipelines (SonarQube gates, approval-gated promotion); accelerated BI releases from **2 hours to <10 min** with Apache Superset provisioning and a custom Python CLI that promotes dashboards with no stored credentials.

Containerized 24.7M-Record ELT Pipeline (NewsQuant) — *DevOps Engineer* — 06/2026 – 08/2026

- Moved an ELT-over-ETL data platform (**24.7M** time-series records, **11** sources) off a Windows workstation into Docker Compose on Linux, porting 19 batch scripts and owning its 3-layer PostgreSQL warehouse, schedules and migrations.
- Orchestrated headless-browser automation (Selenium/Chromium) via multi-profile Docker Compose, fixing the scrapers for containers, and executed **20** SQL migrations after restoring the warehouse from a pg_dump.

AKS Microservices Platform (TradrLab) — *DevOps Engineer* — 04/2026 – 06/2026

- Reduced commit-to-production lead time **80%** for an AI algorithmic-trading platform by replacing laptop builds with one Azure Pipelines path that ships its React/C#/Python microservices to Azure Kubernetes Service (AKS) as SHA-tagged images via in-place Helm upgrades.
- Engineered namespace-scoped RBAC, brought HPA autoscaling and Kubernetes CronJobs for Apache Arrow Flight workloads into the pipeline, and deployed cached Docker builds via ACR.

Azure ASE v3 Re-Architecture & Security (Aztute Corp, USA) — *DevOps & Performance Engineer* — 10/2025 – 02/2026

- Reduced p99 API latency **86%** (850 → 120 ms) for a healthcare ecosystem by driving fixes for SQL scans and thread-pool starvation found with KQL and JMeter, then migrating .NET/SQL apps into a single-tenant ASE v3 behind Front Door, WAF, and APIM.
- Closed the edge and platform findings for **100%** VAPT closure on the first re-test, mitigating LUCKY13 (CBC timing) attacks with TLS 1.3, enforcing HSTS and centralizing secrets in Key Vault; also provisioned Mirth Connect and an Azure-SSIS runtime in Azure Data Factory.

Logging Re-Architecture & Disaster Recovery (Quanted, UK) — *Cloud & DevOps Engineer* — 10/2025 – 01/2026

- Slashed logging-infrastructure costs **80%** and eliminated cluster overhead by retiring Elasticsearch and building a lightweight full-text search and trace-correlation engine on SQLite FTS5 and FastAPI.
- Designed disaster recovery for a **24-hour** RPO and **2-hour** RTO on Supabase/PostgreSQL by engineering a nightly dump-and-restore pipeline into a second project that strictly verifies schema, role, and sequence integrity.

Validated Document Platform on AWS EKS (Ultragenic) — *DevOps & Cloud Automation Engineer* — 07/2025 – 10/2025

- Cut manual release steps **95%** (**20 → 1** command) for a validated, multi-tenant drug-safety platform by taking it live on Amazon EKS (eksctl, a 2-AZ CloudFormation VPC, RDS PostgreSQL Multi-AZ, EFS) with a release script that snapshots, migrates, then rolls out.
- Resolved **11** code-to-production gaps before go-live with its row-level security and audit controls intact, splitting secrets by audience via External Secrets Operator and EKS Pod Identity (**0** static AWS keys in pods), restricted Pod Security, network policies and AWS WAF.

EDUCATION, PUBLICATION & AWARDS

B.Tech, Electrical & Electronics Engineering — Guru Tegh Bahadur Institute of Technology, GGSIPU
Publication: *Pseudo-Static Electromagnetic Reactive Power Compensator* — IEEMA Journal, Jan 2020
Awards: 2nd Prize, GGSIPU Inter-College Major Project | 1st Place (North Zone), Robo-Mania National Robotics Championship, DTU