

LAKSHAY WALIA

JUNIOR DEVOPS ENGINEER | AWS | KUBERNETES | CI/CD

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PROFILE

Junior DevOps and systems engineer with hands-on experience supporting business applications and delivering containerized platforms from installation through handover. Work spans Ubuntu, Docker, K3s/Kubernetes, AWS, Helm, Argo CD, CI/CD, PostgreSQL/Redis, and Prometheus/Grafana. Recently turned a customized KoboToolbox stack into a clean Ubuntu installer with generated secrets, health checks, backup/restore commands, and client documentation.

CORE SKILLS

Linux & Containers: Linux, Ubuntu Server, Bash, SSH, systemd, Docker/Compose, Kubernetes/K3s, Helm, Argo CD, Nginx

AWS Cloud: Associate-level knowledge; hands-on with VPC, EC2, IAM, Security Groups, Elastic IP, and S3; familiar with RDS, Route 53, ELB, Auto Scaling, CloudWatch, and ECS/EKS

CI/CD & GitOps: GitHub Actions, Jenkins, Git/GitHub, GHCR, Docker Hub, Argo CD, branch/PR workflows, health/readiness checks

Monitoring & Data: Prometheus, Grafana, Uptime Kuma, PostgreSQL/PostGIS, MySQL, MongoDB, Redis, MinIO

Development, IaC & AI Tools: Python, FastAPI, Flask, SQLAlchemy, JavaScript/TypeScript; Terraform/Ansible labs; prompt design and AI-assisted coding, debugging, test drafting, and documentation

PROFESSIONAL EXPERIENCE

IT Intern

Jun 2026 - Aug 2026

Central Council for Research in Ayurvedic Sciences (CCRAS) | Delhi, India

- Support software setup, end-user troubleshooting, systems coordination, and technical documentation in a research-office environment.
- Trace issues from diagnosis through verification, turn recurring fixes into clear SOP notes, and hand solutions over to non-technical users.

Freelance Business Software Support

Aug 2024 - May 2026

GTSC Gemstone Business | Remote / Delhi NCR

- Kept billing, inventory, gemstone reports, QR verification, customer records, database, hosting, and backup workflows working for business users.
- Built an offline browser-based invoice tool with configurable GST and business fields, instant A4 preview, saved JSON drafts, and print-to-PDF output.

SELECTED ENGINEERING PROJECTS

Kobo Command Center - Client-Ready Data Platform

Jul 2026

Ubuntu, Docker Compose, Django/Python, PostgreSQL/PostGIS, MongoDB, Redis, Celery, Nginx, Cloudflare Tunnel

- Packaged a customized KoboToolbox deployment as a 13-service Docker Compose platform and self-extracting Ubuntu installer with generated secrets, pinned images, health checks, systemd startup, and kubectl backup/restore commands.
- Extended Kobo with a Person Registry and linked workflow layer across 98 routes; automated a 500-form catalogue spanning 50 public-service programs and 10 lifecycle stages.
- Delivered a sanitized handover with a checksum-verified 658-entry source archive, offline images, browsable code map, installer, and 38-page operator report; excluded live records and client credentials.

EduCenter OS - Cloud-Native Education Platform

2026

AWS: VPC, EC2, IAM, Security Groups, Elastic IP, S3 | K3s, Argo CD, Next.js, FastAPI, PostgreSQL | [View on GitHub](#)

- Deployed Dockerized Next.js and FastAPI/PostgreSQL services on K3s hosted on AWS EC2 inside a custom VPC; configured IAM, Security Groups, an Elastic IP, and an S3 bucket.
- Managed releases for the student, course, enrollment, fee, attendance, messaging, and analytics platform with Argo CD automated sync, prune, and self-heal; ran Prometheus/Grafana and Jenkins on Kubernetes.

LegacyOps 2026 - Hybrid DevOps Delivery

2026

Docker, GitHub Actions, Jenkins, GHCR, Kubernetes/K3s, Helm, PostgreSQL, Redis | [View on GitHub](#)

- Containerized frontend and backend services with PostgreSQL and Redis, then created Docker Compose, Kubernetes, and Helm deployment paths.
- Used GitHub Actions and Jenkins to validate builds, publish images to GHCR, and verify K3s rollout through HTTP 200 plus /health and /ready checks.

ADDITIONAL PROJECTS

Enterprise Homelab | Cloud-Native POS | Automation Toolkit

EDUCATION

Master of Computer Applications (MCA) - IGNOU, Delhi

Expected 2028

Pursuing

Bachelor of Computer Applications (BCA) - GGSIPU, Delhi

2021 - 2024