

Lakshay Jain





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SUMMARY

Senior DevOps Engineer with **5+ years of experience** specializing in **blockchain infrastructure** and **cloud-native** systems for Web3 protocols. Proven track record of architecting secure, highly available infrastructure for **L1/L2 chains, validators, RPCs, and DeFi** platforms using **AWS, Kubernetes, and Terraform**. Led cost optimization initiatives saving over **\$1.2M/year** across protocol infrastructure. Deep expertise in observability (**Prometheus, Grafana, OpenTelemetry**), **CI/CD** automation, and **SRE best practices**. **AWS Certified Solutions Architect** and **Certified Kubernetes Administrator (CKA)**. Active open-source contributor in the blockchain and DevOps ecosystem.

EXPERIENCE

- **Avail Project**  Aug 2024 - Present
Dubai (Remote)
Senior DevOps Engineer
 - Built a custom **Prometheus** cost exporter and **Grafana** dashboards for **DigitalOcean**, identifying inefficiencies and cutting annual cloud costs by **\$400K** across protocol infrastructure. [Blog post](#) .
 - Designed and deployed an in-house **ZK prover** system with **GPU instances** and advanced **K8s CronJobs**, achieving a **28x** (approx **\$950k/year**) cost reduction over external prover solutions.
 - Implemented a **Web3 Signer** using **AWS KMS** to securely manage deployment keys for the protocol, eliminating direct developer access to private keys and enforcing **least-privilege** key management for on-chain operations.
 - Built end-to-end **CI/CD**, monitoring, and **observability** for **Nexus** (cross-chain bridge); configured automated alerts for **solver** balance thresholds to prevent bridge downtime and ensure continuous liquidity. Integrated new **L2 chains** (**MegaETH, Citrea**) into Nexus, expanding the protocol's multi-chain ecosystem.
 - Implemented deep observability with **OpenTelemetry** across the **data availability layer**, helping developers identify and resolve **DHT**-related P2P networking errors impacting light client fetch performance.
 - Built an infrastructure management workflow using **Terraform** and **Ansible** to ensure smooth, zero-downtime upgrades on **RPC nodes** and **validators**; configured **bare-metal** servers and provisioned isolated **devnet** environments with self-hosted CI runners.
 - Defined **SLOs** for Avail Bridge, built **Grafana** alert runbooks for on-call incident response, and established post-mortem processes to drive reliability improvements across the network.
- **Almosafer**  Aug 2023 - Aug 2024
Dubai
DevOps Specialist
 - Architected an end-to-end **CI/CD** pipeline with **Jenkins** on **Kubernetes** (StatefulSet) and **ArgoCD** for GitOps-driven deployments, enabling automated rollouts across staging and production.
 - Deployed production infrastructure on **AWS** using **Terraform**, authoring reusable modules with remote state and workspaces for multi-environment scalability.
 - Automated log rotation and **Filebeat** configuration on legacy systems via **SaltStack** with custom pillar definitions, reducing manual operational overhead.
 - Mitigated a critical **RBAC** security vulnerability in **EKS** by implementing **IAM Roles for Service Accounts (IRSA)**, enforcing least-privilege access across 3 clusters hosting 60+ microservices.
- **Delhivery**  May 2022 - Aug 2023
India
DevOps Engineer
 - Spearheaded **AWS cost optimization** at one of India's largest AWS clients, driving **\$800K+** in annual infrastructure savings through rightsizing, Reserved Instances, and Spot fleet strategies.
 - Executed zero-downtime **EKS** cluster upgrades (1.22 to 1.27) across production, staging, and dev environments, managing node group migrations and API deprecation handling.
 - Built **Terraform** modules for provisioning VPCs, EKS clusters, and RDS instances across multiple AWS accounts with cross-account IAM role assumptions.

WEB3 PROJECTS

- **Deq.fi — Liquid Staking Protocol**  2024
Docker, AWS, Prometheus, Grafana, GitHub Actions, Bash
 - Founding DevOps engineer at Deq.fi — a **liquid staking** protocol on **Ethereum** for Avail. Architected infrastructure for **smart contract** deployments, **staking** services, and frontend across dev, **testnet**, and **mainnet** using AWS, ECS, GitHub Actions, Prometheus, and Grafana.
- **Nitrate Trade — On-chain Trading Bot**  2025
AWS, GitHub Actions, ECS, Docker, GitOps
 - Led DevOps for a Telegram-based **on-chain trading bot** leveraging Avantis for **perpetual** order management on a permissionless **DEX**. Designed a secure, scalable architecture with **secret management** for wallet keys using AWS, ECS, and GitOps-driven deployments.

SKILLS

- **Cloud & Infra:** AWS, DigitalOcean, Hetzner, Latitude, Bare-Metal / On-Prem
- **Orchestration:** Kubernetes, Docker, Helm, ECS
- **IaC & Config Mgmt:** Terraform, Ansible, SaltStack
- **CI/CD:** Jenkins, GitHub Actions, ArgoCD, GitOps
- **Observability:** Prometheus, Grafana, OpenTelemetry, DataDog, ELK, Loki
- **Languages:** Bash, Python
- **Blockchain:** Validator & RPC node ops, L1/L2 infra, Cross-chain bridges, ZK provers, Web3 key management (KMS)

CERTIFICATIONS

- **AWS Certified Solutions Architect - Associate:** [Link](#)
- **Certified Kubernetes Administrator(CKA)** Certificate id: LF-0wj9g7ttd2

EDUCATION

- **Chitkara University**
Bachelor of Computer Science
 - GPA: 9.0/10

2017 - 2021
Rajpura, Punjab, India