

AKASH DUBEY

Linux System Administrator | DevOps & SRE Engineer | Blockchain Infrastructure

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SUMMARY

Linux System Administrator and DevOps/SRE Engineer with experience operating validator and RPC infrastructure across multiple blockchain networks, including Ethereum, Cosmos SDK and Solana. Skilled in Linux system administration, node deployment, synchronization, client upgrades, peer connectivity troubleshooting, monitoring, incident response, and infrastructure automation. Proficient in Bash, Python, Docker, GitHub Actions CI/CD, and AWS. Active open-source contributor and SysAdmin of ALG (Arka Linux GUI), maintaining an Arch-based Linux distribution and its supporting infrastructure.

TECHNICAL SKILLS

Blockchain Infrastructure: Ethereum, Cosmos SDK, Solana, Validator Nodes, RPC Nodes, Full Nodes, Archive Nodes

Blockchain Clients: Geth, Reth, Erigon, Prysm

Infrastructure & Cloud: Linux, Docker, AWS (EC2, S3, ECS, Security Groups), Kubernetes, Terraform, systemd, Ansible

Automation & CI/CD: Bash, Python, YAML, Jenkins, GitHub Actions

Monitoring & Reliability: Prometheus, Grafana, Monitoring, Alerting, Incident Response, Disaster Recovery, Runbooks, Root Cause Analysis

Networking: TCP/IP, DNS, SSH, Firewall Configuration, Network Diagnostics & Troubleshooting

EXPERIENCE

Blockchain SRE | Infstones

Mar 2026 – Jun 2026

- Maintained high availability for production **validator** and **operator nodes** across **16 blockchain networks**, including **Ethereum, SSV Network, Cosmos, Cardano, Babylon, 0G, Sui, IOTA, Mina, IoTeX, Band, XION, CARV, Nexus, Harmony** and **Shentu** through proactive monitoring, incident response, and operational automation.
- Managed validator operations including execution/consensus client configuration, **binary upgrades, snapshot restoration, pruning**, validator key rotation, and rollback procedures while following change-management practices to avoid downtime and slashing events.
- Investigated synchronization failures, peer connectivity issues, missed attestations, RPC endpoint failures, and service outages. Wrote **Bash automation** for health checks and service recovery, and maintained operational **runbooks**.
- Participated in **on-call rotations**, monitoring, incident response, **disaster recovery** and production maintenance across multiple blockchain networks.

DevOps Engineer | RapidNode

Jan 2024 – Feb 2026

- Deployed, maintained, and supported blockchain nodes across **60+ blockchain networks**, including validator, RPC, full, archive, and light nodes across Ethereum, Cosmos SDK, Solana and other ecosystems.
- Supported **10,000+ customer node subscriptions** through deployment, upgrades, maintenance, recovery and troubleshooting across multiple blockchain networks and node types.
- Worked with Ethereum execution and consensus clients including **Geth, Reth, Erigon, and Prysm**, deploying and testing RPC infrastructure for Ethereum testnets.
- Managed end-to-end node operations**, including genesis and snapshot synchronization, pruning, peer configuration, client upgrades, rollback and snapshot-based recovery from desynchronization.
- Used AWS EC2, ECS, and S3** for node infrastructure, containerized workloads and backup and recovery workflows; maintained Jenkins CI/CD pipelines and contributed to Ansible-based node deployment.
- Wrote **Bash** and **Python** automation for node provisioning, health checks, service restarts and routine blockchain infrastructure operations.
- Diagnosed and resolved synchronization failures, peer connectivity issues and RPC endpoint problems, analyzing peer configuration, NAT/firewall rules, client logs, block height, peer count, resource utilization and service health through monitoring and alerting tools.

OPEN SOURCE PROJECTS

ALG (Arka Linux GUI) - [Github](#)

Feb 2023 – Present

- Maintain an open-source Arch Linux distribution, managing packages, system configuration, ISO builds, releases and stability across multiple DE, including **KDE Plasma, Xfce and GNOME**.
- Build and maintain Arch Linux packages, repositories, installation scripts and system configurations; test and contribute fixes and functionality improvements to project applications.
- Manage package updates and security fixes; identify, reproduce and resolve packaging, application, installation and hardware issues.
- Contribute to Bash automation, build/release workflows, GitHub Actions, and project repositories.

TCET Linux - [Github](#)

Apr 2023 – Sept 2024

- Developed and maintained a custom Arch-based Linux distribution (forked from ALG) with **Xfce and GNOME** desktop environments and a **rolling-release model** with automated package updates, targeting Linux adoption across college communities.
- Managed the distribution's **package repository** on GitHub Pages, automating version bumps, builds, package signing and repository database updates in Bash, with support for selective and bulk package rebuilds.
- Automated package maintenance tasks using Bash scripts, reducing manual effort for package updates, repository management and release preparation.
- Tested package builds and release workflows, troubleshooting build failures and repository issues to ensure reliable package delivery.

EDUCATION

Mumbai University

June 2020 – June 2024

B.Tech in Artificial Intelligence & Data Science with **9.03** CGPA