

SHAHZAIB MUSHTAQ

Senior Linux Platform & Site Reliability Engineer

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PROFESSIONAL SUMMARY

Linux platform and infrastructure engineer with 13+ years designing, building, and operating custom-built infrastructure platforms and large-scale distributed systems. Built and ran an in-house OpenStack private cloud on Ceph powering a video platform at global scale — 45,000 concurrent users, 40 Gbps peak, 6–7 PB monthly bandwidth — owning platform architecture, storage design, and engineering direction end to end — including a haystack-model thumbnail storage redesign that cut disk IOPS and improved efficiency at scale. Comfortable scripting in Python and Bash to automate operational work and build runbooks, plus Kubernetes platform work (EKS/AKS), Terraform IaC, Ansible, and GitLab/GitHub CI/CD across multi-account cloud environments. Deep Linux troubleshooting across kernel, networking, storage, and virtualization (KVM, Proxmox, LXC, OpenStack). AWS Certified Solutions Architect – Associate. Actively leveraging AI-assisted development tooling (Claude Code) to accelerate automation and platform engineering.

CORE SKILLS

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| <ul style="list-style-type: none">• Linux Platform Engineering• Distributed Systems Design• Infrastructure-as-Code (Terraform)• Kernel / Networking / Storage• Observability & Alerting• System Hardening | <ul style="list-style-type: none">• Python & Bash Scripting• Kubernetes (EKS / AKS)• Ansible / Config Management• Virtualization (KVM / LXC)• Self-Service Platform Tooling• AI-Assisted Engineering | <ul style="list-style-type: none">• OpenStack Platform Development• Ceph / Distributed Storage• CI/CD & GitOps• AWS (Multi-Account / Multi-AZ)• Performance Tuning• MySQL / PostgreSQL |
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WORK EXPERIENCE

Senior Site Reliability Engineer Mar 2022 – Present
Fueled (formerly 10up Agency), USA — remote

- **Kubernetes Platform Engineering:** Provisioned and operated production Kubernetes clusters (EKS / AKS) with autoscaling and containerized application rollouts, building the automation and IaC around cluster lifecycle, networking, and workload delivery for enterprise client platforms.
- **Scripting & Automation:** Used Python and Bash scripting alongside Ansible playbooks to automate recurring operational work — turning manual one-off fixes into repeatable, documented procedures instead of hands-on intervention.
- **Infrastructure-as-Code & GitOps:** Delivered production change through GitLab/GitHub CI/CD pipelines with staged rollouts and tested rollbacks, managing multi-account AWS and Azure environments as Terraform-based IaC.
- **Cloud Platform Operations:** Administered multi-account AWS (EC2, RDS, EKS, ELB, VPC, Elastic Beanstalk) and Azure (AKS) for Fortune 100 and enterprise brands — T-Mobile, Starbucks, Nobel Prize, Comics Kingdom.
- **Complex Troubleshooting:** Ran structured root-cause investigation across Linux, networking, storage, and distributed services — separating symptom from cause and driving permanent remediation, including live DDoS mitigation under active attack.
- **AI-Assisted Engineering:** Adopting agentic AI tooling (Claude Code) for log analysis, automation scaffolding, and runbook generation to accelerate platform and software delivery.

Senior Solutions Architect Sep 2021 – Mar 2022
Subhosting Innovations Pvt Ltd, India

- Defined hardware and software architecture for client deployments — server sizing, RAID configuration, and platform readiness against workload, performance, and reliability requirements.
- Designed and executed zero-disruption DNS migrations from third-party providers to private infrastructure, including PTR record migration to the datacenter DNS cluster.
- Resolved customer-facing infrastructure incidents by diagnosing root causes and delivering permanent fixes rather than temporary workarounds.

Head of Infrastructure Jul 2015 – Sep 2021
Tune.pk (Pvt) Ltd, Lahore

- **Custom-Built Platform at Global Scale:** Owned architecture, capacity, and reliability of a video platform serving ~45,000 concurrent users, 40 Gbps peak traffic, and 6–7 PB monthly bandwidth — end-to-end platform ownership and technical direction.
- **OpenStack Platform Development:** Built and operated an in-house OpenStack private cloud on Ceph storage, engineering and troubleshooting core components (Neutron, Cinder, Glance, Heat, Horizon) to deliver a stable, self-service compute and storage platform for internal workloads.
- **Distributed Storage Engineering:** Diagnosed and remediated a live Memcached-based DDoS amplification attack, then redesigned thumbnail storage on the haystack model — cutting disk IOPS and improving efficiency, turning an incident into a permanent architectural change.
- **Large-Scale Migrations, Zero Downtime:** Executed datacenter migration from rented hosting to colocation, MySQL-cluster to PostgreSQL-cluster migration, and video storage migration from Debian/XFS to FreeBSD/ZFS — all under live traffic with rollback plans in place.

System Administrator Feb 2011 – Jun 2014
Integrated Units (Pvt) Ltd, Lahore

- Delivered fully managed Linux hosting environments — provisioning, deployment, and production troubleshooting across dedicated and virtual infrastructure.
- Diagnosed production failures across WHM/cPanel and Plesk stacks: mail delivery, DNS/RBL misconfiguration, Apache faults, server crashes, and routing issues.
- Tuned Apache, PHP, and MySQL to stabilize high-traffic environments under heavy process and database load.

CERTIFICATIONS

AWS Certified Solutions Architect – Associate — Amazon Web Services · Issued June 2025 · Expires June 2028
AWS Certified Cloud Practitioner — Amazon Web Services · Issued December 2022

TECHNICAL SKILLS

- **Scripting & Automation:** Python and Bash scripting; Ansible, Terraform, GitLab/GitHub CI/CD, GitOps workflows
- **Platforms & Orchestration:** OpenStack (Neutron, Cinder, Glance, Heat, Horizon), Kubernetes (EKS/AKS), Docker; self-service and internal platform tooling
- **Cloud & Virtualization:** AWS (EC2, RDS, EKS, ELB, VPC, Elastic Beanstalk), Azure (AKS, networking), KVM, Proxmox, LXC, Hyper-V
- **Systems & Storage:** CentOS/Rocky, Ubuntu, FreeBSD; Linux kernel, networking & LACP bonding; Ext4/XFS/ZFS tuning, RAIDZ2, Ceph, fault-tolerant distributed storage; datacenter/rack operations
- **Observability & Data Tier:** Datadog, New Relic, AWS CloudWatch, Graylog, Monit, Cloudflare; Nginx (c10k tuning, custom modules), Apache, PHP-FPM; MySQL/MariaDB Galera, PostgreSQL, Redis, Memcached
- **AI & Agentic Tooling:** Claude Code for log analysis, automation scaffolding, and runbook generation; evaluating agentic workflows for platform engineering