HILAL AHMAD

DevOps Engineer | Multi-Cloud (AWS & Azure) | Full Stack Enterprise Systems

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PROFESSIONAL SUMMARY

Multi-cloud DevOps and Full Stack Engineer with 6+ years of professional experience, including 4+ years focused on DevOps, cloud infrastructure, automation, and enterprise application delivery across AWS and Azure. Microsoft Certified DevOps Engineer Expert and Azure Administrator Associate, alongside AWS Certified Solutions Architect – Associate. Experienced in Infrastructure as Code (Terraform, Ansible), Kubernetes, Docker, CI/CD, Linux administration, and observability with Prometheus, Grafana, and CloudWatch. Proven track record delivering enterprise ERP, POS, SaaS, and system-integration platforms using Laravel, Python, and MERN technologies for government and corporate clients. Experienced in deploying AI/LLM inference workloads within secure, containerized, and monitored production environments.

CERTIFICATIONS

- Microsoft Certified: DevOps Engineer Expert — Microsoft (ID: B52B17635450DFC2)
- Microsoft Certified: Azure Administrator Associate — Microsoft (ID: 9BD33C95F2737DD5)
- AWS Certified Solutions Architect – Associate — Amazon Web Services (ID: 8fcdc786c4eb465eb0c34a221e9c3fd9)
- Microsoft Certified: Azure AI Apps and Agents Developer Associate — Microsoft (ID: 551D98214301B52A)

TECHNICAL SKILLS

Cloud & Infrastructure:	Microsoft Azure, AWS (EC2, S3, IAM, Lambda, RDS, CloudWatch), Linux Administration (Ubuntu), Nginx Reverse Proxy, SSL/TLS Management
DevOps & IaC:	Terraform, Ansible, Docker, Docker Compose, Kubernetes, CI/CD (GitHub Actions, Jenkins), SonarQube, Bash Scripting
Monitoring & Observability:	Prometheus, Grafana, AWS CloudWatch, cAdvisor, Node Exporter
Development & Frameworks:	PHP (Laravel), JavaScript/TypeScript (Node.js, Express, React.js), Python (FastAPI), RESTful APIs, MERN Stack
Databases:	PostgreSQL (pgvector), MySQL, MongoDB, Redis
AI & Automation:	LLM Integration, RAG Architectures, Model Serving & Containerized Inference, Biometric/Hardware Protocol Automation

PROFESSIONAL EXPERIENCE

DevOps Engineer | ERISP (Pvt) Ltd. | Peshawar, Pakistan Aug 2025 – Present

- Built multi-stage CI/CD pipelines via GitHub Actions and Jenkins, automating build, test, and release cycles while slashing deployment rollbacks.
- Integrated SonarQube quality gates directly into pipelines, enforcing static security analysis, code coverage, and corporate compliance standards before production release.
- Orchestrated containerized microservices and production workloads using Docker and Kubernetes, configuring health checks, resource limits, and auto-scaling policies.
- Standardized cloud infrastructure provisioning on AWS (EC2, S3, IAM, Lambda, RDS) using Terraform and Ansible, eliminating configuration drift.
- Engineered full-stack telemetry and observability suites using Prometheus, Grafana, and AWS CloudWatch to monitor container metrics, API latencies, and node health.
- Packaged, secured, and served client-facing AI/ML and LLM models inside optimized Docker runtimes for scalable production inference.

DevOps & Full Stack Engineer | OnicByte (Pvt) Ltd. | Peshawar, Pakistan Jul 2023 – Jul 2025

- Managed Linux staging and production servers; configured Nginx reverse proxies, automated Let's Encrypt SSL rotations, and tightened network security perimeters.
- Standardized multi-service web architectures into reproducible environments using Docker and Docker Compose, cutting onboarding time for engineering teams.

- Developed scalable backend architectures for ERP platforms, POS software, and inventory portals using Laravel, MySQL, and REST APIs.
- Built high-performance full-stack web applications leveraging the MERN stack (MongoDB, Express, React, Node.js) with clean service-layer abstractions.
- Supervised junior engineers and interns, leading weekly code reviews, Git branch workflows, and deployment standardizations.

Web Developer | Mindgigs | Peshawar, Pakistan Jun 2020 – Jun 2023

- Engineered bespoke client web solutions and database schemas using PHP, MySQL, JavaScript, and custom CMS architectures, including third-party REST API integrations and payment gateways.
- Handled end-to-end debugging, cross-environment data migrations, and web server performance tuning.

KEY PROJECTS & GOVERNMENT EXPERIENCE

Government & Public Sector Systems

- **Elementary & Secondary Education Foundation (ESEF) — KP Government:** Lead DevOps Engineer for provincial platforms (HRMIS, PMIS, GCS & OOSC, POHA, KPCSW, WMS, School & Laboratory Management Systems), sustaining 99.9% uptime through proactive monitoring and automated failover.
- **KPRETP Management Information System (kpretp.gov.pk):** Manage DevOps operations and cloud infrastructure for the KP Rural Economic Transformation Project — CI/CD pipelines, automated database backups, disaster recovery, and Linux hardening.
- **KP-TEVTA Enterprise ERP (kptevta.gov.pk):** Maintain production environments and containerized runtime infrastructure, ensuring scaling, load balancing, and high-availability ERP services.
- **PDA Water Billing ERP (pdawaterbilling.pk):** Operate production infrastructure for Peshawar Development Authority's digital billing engine — database performance, high-concurrency payment traffic, SSL/TLS, and telemetry.

Corporate & Industrial ERP Solutions

- **PIEDMC Enterprise ERP (pie.com.pk):** Maintain cloud-hosted ERP infrastructure for Punjab Industrial Estates Development & Management Company — continuous deployment, automated snapshotting, role-based network security.
- **Qlinks Real Estate & Development ERP (qlinks.pk):** Maintain high-availability production/staging servers — reverse proxies, database throughput optimization, zero-downtime deployments.
- **NETS International Enterprise ERP (nets-international.com):** Oversee server administration, deployment pipelines, and global traffic routing for multinational IT/telecom operations.
- **Stanley Foods Industrial ERP (stanleyfoods.com):** Maintain infrastructure and automated backup workflows for supply-chain and batch-processing ERP systems.
- **ERISP Internal Operations ERP (erisp.co):** Manage full DevOps lifecycle — container orchestration, Git workflows, CI/CD — for internal ERP and client billing platforms.

Cloud & DevOps Architectures

- **Multi-Tenant SaaS Provisioning Architecture:** Automated Docker/Nginx pipeline for on-demand isolated ERP instances, backed by a unified Prometheus/Grafana observability stack.
- **Enterprise AI Model Deployment Framework:** Containerized inference pipeline serving production LLM/ML models with automated health checks, network segmentation, and GPU resource quotas.

EDUCATION

Bachelor of Science in Software Engineering — Iqra National University, Peshawar Graduated: July 2024