

Muhammad Hamza Arshad

Senior DevOps Engineer

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PROFESSIONAL SUMMARY

Results-driven Senior DevOps Engineer with 5+ years of hands-on experience architecting, automating, and operating enterprise-grade cloud infrastructure and CI/CD pipelines on AWS. Proven track record in containerized and serverless deployments, infrastructure as code, and production observability at scale. Adept at driving deployment reliability improvements, reducing operational toil through automation, and leading cross-functional engineering teams to adopt DevOps best practices. Holds AWS CCP and AWS SAA certifications, with deep expertise across the full DevOps toolchain.

CORE COMPETENCIES

Cloud & Infrastructure: AWS (ECS Fargate, EC2, VPC, ECR, S3, RDS, IAM, CloudWatch, Route53, SSM, Auto Scaling, Load Balancers)

Infrastructure as Code: Terraform, Ansible, CloudFormation (fundamentals)

Containers & Orchestration: Docker, Kubernetes (EKS), AWS ECS Fargate, multi-stage Dockerfile optimization

CI/CD & Source Control: GitHub Actions, GitLab CI, Jenkins, SonarQube integration

Observability & Monitoring: ELK Stack, Grafana, Prometheus, Zabbix, Nagios, Sentry, CloudWatch

Security & Networking: Least-privilege IAM, IPTables, VPC design, SSL/TLS, Nginx, Apache

Operating Systems & Scripting: Linux (Ubuntu, CentOS), Bash scripting, cron automation

Databases: MySQL, PostgreSQL, MongoDB — backup strategy, optimization, high availability

PROFESSIONAL EXPERIENCE

Senior DevOps Engineer | **CCJK Technologies Pvt Ltd** Jul 2025 – Present

- Architect and maintain serverless container deployments for Node.js, Symfony, WordPress, Laravel, and Next.js applications on AWS ECS Fargate, enforcing least-privilege IAM policies and centralized secret management via AWS SSM Parameter Store.
- Engineered multi-stage Dockerfiles for PHP 8.3 (FPM) applications, achieving significant reductions in image size and build time, accelerating deployment cycles and lowering ECR storage costs.
- Designed and owned end-to-end CI/CD pipelines in GitHub Actions, automating Docker image builds, ECR pushes, and rolling ECS deployments — reducing manual release effort and deployment errors.
- Established CloudWatch dashboards and alerting thresholds for all production workloads, ensuring proactive incident detection and faster mean time to resolution (MTTR).
- Deployed and maintained PHP, WordPress, Vtiger CRM, and NestJS applications across AWS and Ubuntu-based infrastructure with documented runbooks and zero-downtime deployment strategies.

DevOps Engineer | **Developers Studio Pvt Ltd** • Lahore Dec 2022 – Jul 2025

- Designed containerized deployment solutions for React.js and Node.js applications, enabling scalable, portable, and environment-consistent releases across development, staging, and production.
- Built and operationalized the full ELK Stack (Elasticsearch, Logstash, Kibana) with Beats agents for centralized log aggregation, providing real-time visibility into system health across the infrastructure fleet.
- Provisioned and managed AWS infrastructure (EC2, VPC, ALB, auto-scaling groups, ECR, ECS) using Terraform, enabling repeatable, version-controlled infrastructure changes and reducing provisioning time.
- Deployed and scaled Laravel, Vue.js, and Node.js applications on Ubuntu servers and Docker containers, maintaining SLA uptime targets through proactive monitoring and automated health checks.
- Developed automation scripts for server monitoring, security hardening (IPTables), and automated database backups; deployed and maintained cryptocurrency blockchain nodes with high availability requirements.
- Integrated SonarQube into Jenkins CI/CD pipelines to enforce code quality gates, reducing defect escape rate and ensuring compliance with engineering standards before production deployments.

- Configured Zabbix for proactive server monitoring and multi-channel alerting (email, Slack), enabling faster incident response and reducing unplanned downtime.
- Implemented Sentry for real-time application error tracking across all production services, providing development teams with actionable stack traces and improving MTTR.

Associate DevOps Engineer | Galaxy Solutions ITC • LahoreAug 2021 – Dec 2022

- Deployed and configured Odoo ERP and Traccar fleet management systems for multiple clients, ensuring reliable production readiness, custom domain setup via Route53, and client onboarding.
- Managed comprehensive backup and restoration strategies for MySQL and PostgreSQL databases, including query optimization and capacity planning to support business-critical workloads.
- Administered AWS EC2 Linux servers, configured S3 bucket lifecycle policies for backups, and monitored application health through CloudWatch log insights and metric alarms.
- Containerized testing environments with Docker and fine-tuned Nginx configurations for performance, security hardening, and socket-based application deployments (same-port and multi-port setups).
- Deployed Laravel, WordPress, Ruby on Rails, Vue.js, and Node.js applications on Linux servers with remote database connectivity, ensuring optimized server resource utilization.
- Authored weekly infrastructure status reports via custom scripts, covering uptime metrics, critical service restarts, patch status, and performance baselines.

DevOps Intern | Programmers Force • LahoreJun 2021 – Aug 2021

- Completed structured training across Linux fundamentals, Docker, CI/CD pipelines, Git version control, MySQL/PostgreSQL/MongoDB, Ansible, Terraform, and web server administration (Apache, Nginx).

CERTIFICATIONS & TRAINING

- AWS Certified Solutions Architect – Associate (SAA)
- AWS Certified Cloud Practitioner (CCP)
- Cisco Certified Network Associate (CCNA)
- DevOps Engineer Certification
- Basics of Cloud Computing – KodeKloud

EDUCATION

Bachelor of Science in Computer Science | University of Management & Technology • Lahore2020