Mohan Karthikeyan [in]

Total Exp: 6 Years

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Address: Liverpool, UK– Willing to Relocate.

Professional Summary:

- Results-driven Cloud & DevOps Engineer with 6 years of experience architecting secure, scalable, and cost-optimized infrastructure on AWS for enterprise and SaaS environments.
- Proven expertise in cloud automation using Terraform, container orchestration with Kubernetes and Docker, and building CI/CD pipelines to accelerate delivery.
- Strong background in cloud security, monitoring, and incident response with hands-on use of AWS-native services, Grafana, Prometheus, and CloudWatch ensuring compliance and reliability.

TECHNICAL SKILLS:

Cloud Platforms: AWS, Azure Cloud, GCP, On-prem
Containerization Tool: Docker, Kubernetes, ECS, Docker-Compose
AWS Services: EC2, VPC, IAM, ELB, Lambda,ELB,ASG
CI/CD Tools: GitHub Actions, Azure Devops, Jenkins
Databases: Postgresql, MongoDB, Redis Cache
Authentication & Protocols: SMB, TLS, Encryption, SAML
IAC Tools: Cloud Formation, Terraform & Ansible
OS: Windows, Linux (Certified)
Source Code Management: Github, GitLab
Scripting Languages: Bash, Python, Yaml
Monitoring and Logging: Grafana, ELK, Cloudwatch
Networking: TCP/IP, TLS, DNS, VPN, Load balancer, SSL

WORK EXPERIENCE:

GoRentals – UK(Hybrid)   Nov 2024 – Present
Designation: Devops Engineer

- Provisioned multi-tier AWS infrastructure with Terraform, reducing deployment time by **40%** and enhancing application scalability across environments.
- Maintained SLA uptime of **99.99%** by implementing Auto Scaling policies and proactive monitoring, increasing campaign success rate by 15%.
- Reduced AWS billing by **$1,700**/month by analyzing usage patterns and right-sizing t4g.xlarge instances in dev/UAT.
- Developed dynamic Redshift node scaling using Bash scripting, reducing cluster cost by **50%** during off-peak hours.
- Enhanced API throughput by 30% by tuning ELB settings and optimizing backend service deployments.
- Automated EKS deployments using GitLab CI/CD pipelines, pulling from private Docker registries and supporting blue-green deployments.
- Architected resilient infrastructure with multi-AZ EC2, self-healing routes, and Route53 failovers for business continuity.
- Improved developer efficiency and deployment frequency by optimizing workflows and container orchestration processes.

Project1:
- Deployed a secure PHP-MySQL stack on AWS EKS using Fargate, with NFS static volumes and namespace-based resource quotas. Configured RBAC for access control and managed secrets/configMaps for secure configurations. Utilized kubeadm, kubectl, and Docker for seamless operations.

Project2:
- Provisioned automated Jenkins infrastructure using Terraform and Ansible for CI/CD deployment in AWS. Built VPC with public/private subnets and integrated EC2-based Jenkins master with Java/Python. Ensured end-to-end security and seamless integration across environments.

GAVS Technology – India(Hybrid)   Mar 2023 – Oct 2023

Designation: DevOps Engineer

- Architected AWS infrastructure using Terraform, enabling secure and scalable provisioning aligned with ISO compliance standards.
- Migrated MySQL and MongoDB workloads to RDS and DocumentDB, improving query performance by **25%** with zero downtime.
- Streamlined CI/CD workflows with Jenkins pipelines, cutting deployment time in half and reducing errors by **75%**.
- Engineered disaster-resilient infrastructure with multi-AZ, Auto Scaling, ELB health checks, and Route53 routing policies.
- Applied AWS security best practices including IAM roles, MFA, access key rotation, S3 bucket encryption, and NACL configuration.
- Refactored legacy monoliths into containerized microservices on Kubernetes, improving scalability and dev productivity.
- Managed full-lifecycle deployments using EC2, AMIs, ALB, S3, Lambda, CloudWatch, and Route53 across environments.
- Enabled observability with Grafana dashboards and Prometheus alerts, minimizing MTTR and boosting system reliability.

Tata Communications and Transformation of Services Ltd – **Chennai, India**

Designation: Cloud Engineer   Oct 2021 – Nov 2022

- Managed **50+** EC2 instances ensuring 99.9% SLA uptime with proactive maintenance and performance optimization techniques.
- Achieved **15%** cost savings annually by auditing and consolidating underutilized cloud resources and database clusters.
- Automated provisioning using Terraform for consistent infrastructure deployments across test and prod.
- Developed Jenkins pipelines integrating Git, Maven, Docker, and SonarQube to improve code quality and release cadence.
- Managed S3 lifecycle policies and stored Terraform state files in DynamoDB for enhanced versioning and traceability.
- Configured EC2 host-level alarms and alerts using CloudWatch, reducing mean time to detect and resolve critical issues.

ACT FIBRENET - Chennai, India

Designation: Network Engineer

- Reduced fault rate in high-issue networks by **40%** through root cause analysis and infrastructure redesign, supervised field teams to implement optimized routing solutions within strict deadlines.
- Identifying vulnerabilities and recommending corrective measures to enhance infrastructure security.
- Supervised on-site engineers during network rectification, ensuring timely completion of tasks.

Achievements:

Certifications-:	**Interpersonal Skills:**
- Certified Kubernetes Administrator(CKA)	- Proven ability to collaborate with others
- Hashicorp Certified: Terraform Associate	- Adaptability & Flexibility
- Linux Foundation Certified System Administrator (LFCS)	- Strong problem-solving skills

Awards-

- **Customer Delight ->** Received for doing multiple POCs and getting good feedback, appreciation from engagements.
- **Hero Of the Cluster ->** Received for good work performance in the project.

Visa Status: Holding Post Study Work visa.

EDUCATION:

Master of Business Administration from **University of Chester, UK**   2023 to 2024
Bachelor of Electronics and Communication Engineering from **Anna University, India**   2013 to 2017