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Elnur Mammadov

DevOps Engineer

SUMMARY

A seasoned DevOps Engineer with a demonstrated transition from mechanical engineering to cloud and infrastructure automation. This engineer brings over a decade of experience from the energy industry to the tech sector, specializing in AWS and Kubernetes. Key skills include Terraform for IaC, Kubernetes cluster management, CI/CD pipeline construction using Jenkins and GitHub Actions, and proficiency in cloud architectures (AWS, Azure). Adept at reducing deployment times and costs by innovating solutions like Karpenter for spot instances and refactoring Terraform codebases with Terragrunt. Holds significant technical certifications such as AWS Solution Architect and Certified Kubernetes Administrator. With an MSc in Advanced Mechanical Engineering, the engineer's analytical prowess is utilized to solve complex DevOps challenges, offering exceptional background in achieving operational efficiency and automation.

SKILLS

Main Technical Skills	AWS (5 yr.), Terraform (5 yr.), Kubernetes (5 yr.), Azure DevOps (3 yr.), Docker (5 yr.)
Programming Languages	Python
Data Analysis and Visualization Technologies	Apache Airflow, Presto S3
Databases & Management Systems / ORM	AWS DynamoDB, MongoDB, Redis
Cloud Platforms, Services & Computing	Azure
Amazon Web Services	AWS API Gateway, AWS ASG (Amazon Auto Scaling Groups), AWS Cloudformation, AWS CloudWatch, AWS Cognito, AWS DynamoDB, AWS EC2, AWS ECS (Amazon Elastic Container Service), AWS Elastic Kubernetes Service (EKS) (5 yr.), AWS Fargate, AWS Lambda
Azure Cloud Services	Azure, Azure Kubernetes, Microsoft Azure API
Deployment, CI/CD & Administration	Ansible, ArgoCD, Helm, Jenkins, KOPS

SDK / API and Integrations	AWS API Gateway, Microsoft Azure API
Scripting and Command Line Interfaces	Bash
Operating Systems	FreeBSD
Version Control	Github Actions
Message/Queue/Task Brokers	MQTT
Logging and Monitoring	Prometheus
Virtualization, Containers and Orchestration	Terragrunt, VPC Peering
Mail / Network Protocols / Data transfer	TLS
Other Technical Skills	1C, IAM\RBAC, KEDA, NLB, RDS, WAF

WORK EXPERIENCE

Senior DevOps Engineer, SaaS Platform for Investment Management and Product Design

Duration: 10/2021 - Present

Summary:

- Managed and troubleshoot AWS EKS and ECS clusters, executed commands in pods/containers, analyzed logs and metrics using observability and monitoring tools, and migrated a Kubernetes-based Jupyter Notebooks cluster to AWS EKS, which is managed by Terraform
- Reduced costs, implemented monitoring dashboards, refactored Terraform code, automated infrastructure provisioning and deployment, and created advanced TCP/IP networking setups

Responsibilities: Management and troubleshooting of AWS EKS and ECS clusters, migration of Jupyter Notebooks cluster to AWS EKS, provisioning of monitoring dashboard for the Product team, refactoring Terraform code, creation of GitHub Actions and Jenkins workflows, certificate management, and new Azure AD and Cognito Federation setup.

Technologies: AWS, Azure, EC2, VPC, ELB, ASG, RDS, DynamoDB, Lambda, API Gateway, S3, CloudFormation, CloudWatch, IAM, Networking, Cognito, Apache Airflow (MWAA), Kubernetes, EKS, Helm, ArgoCD, KEDA, Karpenter, ECS, Fargate, Docker, Terraform, Terragrunt, Jenkins, GitHub Actions, Linux



DevOps Engineer, Layer 1 decentralized finance (DeFi) platform

Duration: 06/2021 - Present

Summary:

- As a co-founder, provisioned, monitored, and maintained highly available IT infrastructure for a Layer 1 decentralized finance (DeFi) platform, attracting over \$3M in stakes
- Deployed a highly available staking node using Docker containers in AWS with comprehensive security measures

Responsibilities: Provisioning, monitoring, and maintaining IT infrastructure, deployment of staking node, security implementations, and creation of a WordPress-based website for the platform.

Technologies: AWS, Docker, Prometheus, Grafana, PagerDuty, Route53, Cloudfront

DevOps Engineer, Java-based microservice apps CI/CD

Duration: 05/2020 - 10/2021

Summary:

- Built CI/CD pipelines for Java-based microservice apps on AWS, managed workflow with Jenkins, and deployed on a Rancher RKE Kubernetes cluster
- Provisioned infrastructure with CloudFormation and set up monitoring with Prometheus and Grafana

Responsibilities: Building CI/CD pipelines, managing Jenkins, containerization with Docker, provisioning infrastructure with CloudFormation, DNS management with Route53, and setting up monitoring.

Technologies: AWS, Jenkins, Docker, Rancher RKE, Kubernetes, Helm, CloudFormation, Route53, Prometheus, Grafana

DevOps Engineer, Django-based web apps deployment

Duration: 02/2020 - 05/2020

Summary: Provisioned AWS services such as EKS, ELB, VPC, and S3 using Terraform and created Jenkins pipelines for deployment of Django-based web apps with nginx as the ingress controller.

Responsibilities: Provisioning AWS services, creating Jenkins pipelines for web app deployment.

Technologies: AWS, EKS, ELB, VPC, S3, Terraform, Jenkins, Django, nginx

Senior Mechanical Engineer, Energy Projects in Caspian Region

Duration: 09/2006 - 12/2019

Summary: Delivered multi-billion dollar energy projects, oversaw the design of subsea assets, reviewed and approved technical queries and deviations, and provided engineering support to the procurement of all subsea packages.

Responsibilities: Engineering and project management, overseeing design contractors, reviewing technical queries and deviations, supporting procurement processes.

Technologies: Industry-specific technologies related to Oil & Gas



EDUCATION

- **MSc Advanced Mechanical Engineering**
University of Southampton, Southampton, UK
2010 - 2011
- **BSc Naval Architecture**
Istanbul Technical University, Istanbul, Turkey
2002 - 2006

CERTIFICATION

- **AWS Solution Architect**
- **Certified Kubernetes Administrator**
- **HashiCorp Certified: Terraform Associate**

