NISAL GANGANA WICKRAMATHILAKA

DEVOPS ENGINEER | AWS CLOUD SPECIALIST

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SUMMARY

AWS Certified DevOps Engineer with 2+ years of experience designing, deploying, and automating AWS cloud infrastructure. Skilled in Python and Bash scripting, Terraform, and CI/CD pipelines using Bitbucket and Jenkins. Experienced with AWS security services (IAM, KMS, Secrets Manager), networking, and monitoring tools including CloudWatch, Grafana, and Kibana. Strong collaborator working with data scientists and developers to deliver scalable, secure cloud solutions. Kubernetes skills in progress.

EXPERIENCE

Associate System Engineer, Aventure IT, Horana, Sri Lanka   **February 2024 – Present**
- Deployed and managed AWS infrastructure focusing on scalability, reliability, and security including ECS clusters, VPCs, ALBs, and IAM policies.
- Automated infrastructure provisioning and environment setup using Terraform, significantly reducing manual deployment errors and time.
- Configured and maintained CI/CD pipelines using Bitbucket Pipelines, enabling continuous integration and seamless deployments.
- Collaborated with developers and data scientists to develop automation scripts for infrastructure provisioning and application deployment.
- Implemented AWS security best practices including access control policies and secure connectivity.
- Documented AWS configurations, security policies, and best practices to maintain operational transparency and compliance.

Trainee Systems Engineer, KBSL Information Technology, Sri Lanka   **May 2023 – Jan 2024**
- Supported virtualization infrastructure and network security for enterprise clients, including configuration of security groups, VPNs, and identity access management.
- Provided technical support and troubleshooting for cloud-based systems and user environments.
- Assisted in VDI rollout and network security enhancements, contributing to system stability and security compliance.

Intern - System Support Team, MillenniumIT ESP, Colombo, Sri Lanka   **Aug 2022 – Apr 2023**
- Managed AWS infrastructure components ensuring reliable server and database operations.
- Automated CI/CD pipelines to improve deployment efficiency and system reliability.
- Monitored system logs and metrics using Grafana and Kibana to proactively identify and resolve performance bottlenecks.
- Resolved incidents and managed tickets using Jira, ensuring timely response to system issues.

EDUCATION

BSc (Hons) in Information Technology   **February 2019 – September 2023**
Specializing in Computer Systems & Network Engineering
Sri Lanka Institute of Information Technology (SLIIT), Colombo

CERTIFICATIONS & TRAINING

- AWS Certified Solutions Architect – Associate (SAA-C02) – Udemy – Apr 2022
- VMware VSP – Networking and Security 2023 – VMware – Feb 2024
- Certified Kubernetes Administrator (CKA) – Practical Course in Progress – Udemy

TECHNICAL SKILLS

- Cloud Platforms: AWS (EC2, VPC, IAM, KMS, ECS, ALB, S3, RDS, SECRET MANAGER)
- Infrastructure as Code (IaC): Terraform
- Scripting Languages: Python
- CI/CD Tools: Bitbucket Pipelines, Jenkins, Git, GitHub
- Monitoring: AWS CloudWatch, Grafana, Kibana
- Security: AWS IAM, VPC Security Groups, KMS, Cognito, Access Control
- Containerization & Orchestration: Docker, Kubernetes (in progress)
- Networking: VPC configuration, security groups, load balancing

PROJECTS

JobNinja App – Cloud Infrastructure Automation
Australian Project

- Architected and automated cloud infrastructure on AWS using Terraform to support microservices-based application.
- Configured AWS services including EC2, VPC, IAM roles, RDS for optimized performance and security.
- Collaborated with development teams to streamline deployment processes and infrastructure monitoring.

2024-2025

Kubernetes Cluster and AWS Infrastructure Automation
AXA Gulf, Dubai

- Designed and deployed Kubernetes clusters to support scalable containerized applications.
- Automated AWS infrastructure provisioning using Terraform, ensuring repeatable and consistent environments.
- Implemented CI/CD pipelines for application deployment and infrastructure updates.

2022

Human-Robot Collaboration for Autonomous Strawberry Harvesting
SLIIT Final Year Research

- Developed a robot system trained with machine learning to detect humans and maintain safe distances using real-time sensors.
- Integrated safety monitoring features to enhance autonomous operation in collaborative environments.

2022

LANGUAGES

- English: Fluent
- Sinhala: Native

REFERENCES

- **Available upon request.**