

NGUYEN NGOC TU (Chrish)

DevOps / Infrastructure Engineer | Terraform | AWS & Azure | Kubernetes | CI/CD | GitOps | Observability

Ho Chi Minh City, Vietnam | tungng070398@gmail.com | [linkedin.com/in/nguyen-tu-0187b5214](https://www.linkedin.com/in/nguyen-tu-0187b5214)

PROFESSIONAL SUMMARY

DevOps / Cloud Engineer with 5+ years of hands-on experience designing, automating, and operating infrastructure and Kubernetes-based platforms across AWS and Azure. Strong background in Terraform-based Infrastructure as Code, CI/CD automation, GitOps delivery, Linux operations, observability, alerting, incident response, and secure cloud operations. Experienced collaborating with infrastructure, security, product engineering, and customer-facing stakeholders to translate platform improvements into reliability, delivery speed, and business value.

CORE DEVOPS SKILLS

Cloud	AWS (EC2, S3, Lambda, CloudWatch); Azure (AKS, Azure Monitor, Application Insights, Networking, Key Vault)
IaC / Automation	Terraform, Atlantis, Ansible, Bash/Shell, Python automation, environment validation, operational tooling
CI/CD	GitHub Actions, Azure Pipelines, GitLab CI/CD, release automation, deployment gates, repeatable environment delivery
GitOps / Containers	Kubernetes, Docker, AKS, EKS-aligned AWS Kubernetes operations, Argo CD, External Secrets, declarative delivery practices
Linux / Security	Linux administration and troubleshooting, IAM/RBAC, Kubernetes security controls, secrets management, TLS/VPN, vulnerability/security scanning
Observability	Prometheus, Grafana, ELK/OpenSearch, Loki, Splunk, Dynatrace, Azure Monitor, Application Insights, Log Analytics
Reliability	SLI/SLO definition, alerting strategy, incident response, on-call escalation support, RCA/postmortem, recurring-issue prevention
Data / Messaging	Kafka, MQTT, NATS, Pulsar, MongoDB, PostgreSQL, OpenSearch, Milvus; real-time/event-driven workloads

PROFESSIONAL EXPERIENCE

TMA Solutions - DevSecOps / Platform Engineer

Sep 2021 - Present

- Designed, developed, and managed cloud-native infrastructure across AWS and Azure using Terraform, Atlantis, and Ansible, supporting Kubernetes-based microservice platforms for product teams.
- Built and maintained CI/CD pipelines with GitHub Actions, GitLab CI/CD, and Azure Pipelines for application and infrastructure delivery across development, staging, and production environments.
- Implemented GitOps-based deployment workflows with Argo CD and declarative delivery practices, improving release consistency, rollback readiness, and environment repeatability.
- Managed containerized workloads on Kubernetes and Docker, including AKS and AWS Kubernetes operations, cluster configuration, workload scaling, resource optimization, and production troubleshooting.
- Developed automation scripts and operational tooling in Bash/Shell and Python to reduce manual effort, validate environments, and improve day-to-day platform operations.
- Administered and hardened Linux-based cloud environments for DevOps and application workloads, troubleshooting application, network, security, and infrastructure issues.
- Operated observability and logging stacks including Prometheus, Grafana, ELK/OpenSearch, Loki, Splunk, Dynatrace, Azure Monitor, Application Insights, and Log Analytics.
- Implemented alerting, SLI/SLO practices, on-call escalation support, incident troubleshooting, RCA/postmortem processes, and preventive actions to reduce recurring incidents.
- Strengthened platform security with IAM/RBAC, Kubernetes security controls, Azure Key Vault, External Secrets, TLS/VPN connectivity, vulnerability scanning, and CI/CD security checks.
- Collaborated with infrastructure, security, development, and customer-facing stakeholders to translate technical improvements into more reliable services, faster delivery, and cost-aware cloud operations.
- Contributed to technical decision-making, deployment standards, observability best practices, and DevOps knowledge sharing within engineering teams.

vCyber Lab - Research Contributor, Cloud / DevOps / AI Systems

Part-time

- Designed CI/CD pipelines and Kubernetes deployment workflows for AI/ML inference systems, improving reproducibility and deployment speed.
- Built automated DevSecOps and AI validation environments using Docker, Kubernetes, Python, and Bash for research and experimentation workloads.

SELECTED PROJECTS

OCR / GenAI Financial Information Extraction Platform

Oct 2025 - Present

Production-grade Azure AKS microservices platform for financial document extraction using OCR/LLM models, AI agents, APIs, NATS, Milvus, and supporting services.

- Provisioned scalable Azure infrastructure with Terraform and GitHub Actions, enabling reproducible environment setup and controlled platform changes.
- Built CI/CD and GitOps workflows for application and infrastructure delivery; operated AKS workloads with reliability, scalability, and resource efficiency in mind.
- Implemented monitoring with Prometheus, Grafana, Azure Monitor, Application Insights, and Log Analytics; defined SLI/SLO and alerting strategy for business-critical services.
- Partnered with development teams to improve platform operations and production delivery of AI-enabled services.

Network Device Management System

Dec 2023 - Present

Distributed AWS/Kubernetes platform for managing and monitoring network devices with Kafka/MQTT-based real-time data processing.

- Designed and operated Kubernetes-based microservices on AWS, focusing on high availability, scalability, and real-time telemetry processing.
- Automated infrastructure with Terraform and Atlantis, optimized AWS resource utilization, and supported cost-aware cloud operations.
- Delivered GitOps-based continuous deployment with GitLab CI/CD and Argo CD; implemented External Secrets and TLS/VPN connectivity for secure operations.
- Improved issue detection time by 40% with Prometheus/Grafana observability; led incident troubleshooting and RCA to reduce recurring incidents.

Data Analytics System for Business Optimization

Oct 2021 - Dec 2023

Cloud-native analytics platform on Azure AKS and OpenSearch, supporting large-scale data processing and AI-based anomaly detection.

- Developed and operated Azure-based workloads with a focus on availability, performance, operational efficiency, and secure platform operations.
- Standardized deployment workflows with Azure Pipelines and improved observability through Splunk and Dynatrace.
- Researched and integrated AI-based anomaly detection to support proactive monitoring and earlier incident identification.

EDUCATION & CERTIFICATIONS

- Bachelor of Engineering in Computer Networks and Communications - University of Information Technology, Ho Chi Minh City
- Cisco DevNet Associate
- Microsoft Certified: Azure Fundamentals