

# Nguyen Anh Tu

DevOps/SRE

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Hanoi, Vietnam



DevOps / SRE Engineer with 5+ years of experience in CI/CD automation, infrastructure operations, and system reliability. Strong background in on-prem and cloud environments, Kubernetes, Terraform, Jenkins, and observability (Prometheus, Grafana). Proven track record of reducing manual operations, improving deployment reliability, and enabling self-service platforms for engineering teams.

**Education:** FPT University: Bachelor of Software Engineer (2008-2013)

## Technical Skills

<b>Cloud &amp; Infra</b>	AWS (EC2, VPC, S3, Lambda, RDS, CloudWatch, IAM), Terraform (IaC), Linux (Ubuntu, CentOS)
<b>Container &amp; Orchestration</b>	Docker, Kubernetes (EKS-compatible via Rancher/k3s), Microservices Architecture
<b>Observability</b>	Graphite, Grafana, Prometheus, Loki, Otel, Fluent-bit, Cloudwatch
<b>CI/CD</b>	Jenkins, GitHub Actions, ArgoCD
<b>Version Control</b>	Github, Gitlab, Git
<b>Scripting &amp; Coding</b>	Bash, Python, Java
<b>Database</b>	PostgreSQL, MySQL, MSSQL, Aurora, DynamoDb
<b>Build &amp; Test</b>	Gradle, Maven, Jmeter, Selenium, Cucumber, Junit
<b>Other</b>	CMDB, Agile, Cost Optimization

## Certifications:

- **2025:** AWS Certified CloudOps Engineer – Associate

- **2025:** AWS Certified Solutions Architect – Associate
- **2017:** Oracle Certified Associate, Java SE 7 Programmer

## Professional Experience

### Technical QA Engineer/DevOps Specialist

#### TIBCO Orchestra Networks Vietnam (2018 - 2024)

- Architected and automated CI/CD pipelines using Jenkins and Gitlab, integrating quality gates (JUnit, SonarQube, code coverage) and provisioning Linux environments (dev/test/staging) with Bash/Python scripting, **reducing manual effort by 50% and enabling continuous integration/delivery.**
- Managed on-premise and cloud infrastructure operations, monitoring performance with Linux tools (top, vmstat, iostat, sar) and Graphite/Prometheus/Grafana dashboards to optimize reliability, troubleshoot issues, and ensure proactive detection in scalable environments.
- Designed and implemented a self-service DevOps platform for developers/testers, providing real-time access to logs, metrics, and environments while automating provisioning—eliminating manual requests, **accelerating delivery cycles, and reducing operational tickets by 80% YoY.**
- Built and maintained an internal CMDB using custom automation tools to centralize configurations, asset relationships, and metadata, enabling compliance checks, security best practices, and self-service workflows, **resulting in 40% fewer configuration errors.**
- Analyzed system bottlenecks (CPU, memory, disk I/O, latency) and collaborated with cross-functional teams to enhance scalability, stability, and production readiness, incorporating cloud security practices like encryption and access controls.
- Maintained comprehensive documentation and runbooks on Confluence for CI/CD processes, infrastructure setup, environment management, and DevOps best practices, fostering knowledge sharing and team collaboration.
- Led proof-of-concept evaluations for modern tools including Kubernetes for container orchestration, Grafana/Prometheus for observability, and resource optimization strategies, validating efficiency in PoC environments and mentoring junior engineers on implementation.
- Directed on-premise to GCP migration using lift-and-shift approaches, and migrated self-hosted GitLab to GitHub, reconfiguring repositories, CI/CD pipelines, and onboarding teams to improve productivity.

## Technical Support Engineer

### Orchestra Networks Vietnam (2017-2018)

- Provided technical support to clients, resolving inquiries and troubleshooting performance issues in collaboration with development teams to deliver fixes efficiently.

## Software Developer

### FPT Software (2012-2017)

- Developed and maintained Android applications (TV app) using Java, following MVC/OOP principles, UI/UX best practices, OpenGL ES 2.0, and networking.
- Created simulated Linux environments for coding, testing, and deployment, building foundational skills in system administration and automation.

## Projects

### Riddlebuddy App (Personal Project, 2025–Present)

<http://github.com/tuna6/RiddleBuddy/>

Containerized microservice demo to generate traffic and visualize logs, metrics, and traces using OpenTelemetry

- **Deployed** containerized microservices (**FastAPI + Java Spring**) on **Kubernetes** with **Docker**, **Helm** charts, and **GitOps** via **ArgoCD**; supported local **k3s**, hybrid, and production **AWS EKS** with **ALB** ingress.
- Built end-to-end **observability** using **OpenTelemetry** (traces/metrics/logs), **AWS Managed Prometheus (AMP)**, **Grafana** dashboards/alerting, **Loki** (logs), and **Fluent-bit** for forwarding container/application logs to **CloudWatch Logs** in **EKS**.
- **Automated GitHub Actions CI/CD** with **Docker** builds, **Trivy** CVE scanning (blocks **HIGH/CRITICAL**), **ECR** pushes, **Helm** validation, **ArgoCD** sync, rollout verification, and rollback support.

## Link

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<https://github.com/tuna6>

<https://www.credly.com/users/nguyen-tu/badges#credly>