Tran Chuc Thien

DevOps Engineer
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SUMMARY

I am a fresh graduate majoring in Computer Networks and Data Communications at the University of Information Technology - VNUHCM. My core focus areas include networking, containerization, CI/CD pipelines, cloud technologies, automations, and monitoring systems. I am also keenly interested in the evolving trends of AI and Machine Learning, with a particular enthusiasm for MLOps, and am committed to continuous learning in the dynamic IT landscape.

EDUCATION

University of Information Technology - VNUHCM Sep 2021 – July 2025

- B.S.E in Computer Networks and Communications.
- GPA: 9.07/10
- Academic Encouragement Scholarship for Excellent Students in 2022, 2023, 2024, 2025

AWARD

Third Prize **Net Challenge 2023** Nov 2023

A network and system administration competition for students of UIT - VNUHCM.

CERTIFICATE

TOEIC Listening and Reading: 750/990 June 2023

SKILLS

- Programming: Bash, Python.
- DevOps: Docker, Kubernetes, AWS, Terraform, Linux, GitHub Actions, Jenkins, ArgoCD, Datadog, Prometheus, Grafana, Locust
- Personal: Research, teamwork, time management, requirement analysis

EXPERIENCES

DevOps Intern: THD Cybersecurity July 2024 – Sep 2024

I am participating in and supporting the project - building a monitoring system for a securities company using Datadog tools.

Responsibilities:

- Research configuration methods to collect metrics from components such as PostgreSQL, MongoDB, Keycloak, Centrifugo, Kubernetes components, MetalLB, Go applications, and Node.js applications.
- Research the key metrics of the components and participate in building the Dashboard and Alerts.

DevOps Software Integration: Bosch Global Software Oct 2024 – Dec 2024

Participated in the implementation and integration of a driving assistance project, focusing on two main branches: Radar and Camera Sensor systems for automobile manufacturers in the Chinese market.

Responsibilities:

- Managed the development branch of the project and maintained Jenkins pipelines for CI/CT processes.
- Conducted integration testing for each new release and prepared comprehensive documentation for the updated versions.
- Researched and developed internal tools to automate and streamline workflows for enhanced efficiency.

DevOps Intern: Opswat Software Vietnam Mar 2025 – June 2025

Participated in the OPSWAT's DevOps CloudOps Training Program 2025. This comprehensive training enhanced my skills in DevOps and SRE fundamentals, Linux, networking, cloud computing, Docker, Kubernetes, IaC with Terraform, CI/CD, ArgoCD, monitoring and logging with Datadog, Prometheus, and Grafana, and DevSecOps. The program concluded with a multi-day assessment.

PROJECTS

Thesis: Enhancing sentiment analysis in brand monitoring through MLOps

Mar 2025 – June 2025

This thesis investigates the application of DevOps practices, specifically MLOps, to the training of NLP sentiment analysis models with big data. The research contextualizes this approach within the practical domain of social media brand monitoring. Using Spark NLP, Mlflow, Evidently AI, AWS, Terraform, GitHub Actions.

Source code: https://github.com/TranChucThien/kltn-sentiment-monitoring-mlops

Team size: 2

Responsibilities:

- Designed and implemented the end-to-end MLOps pipeline, encompassing data collection, model training, testing, and continuous monitoring.
- Developed a scalable model pipeline leveraging Spark NLP for processing and analyzing large datasets.
- Deployed applications to the EKS environment, ensuring high availability and HTTPS domain.

Project: Go CoffeeShop

April 2025

The goal is to provision, deploy, and operate a microservices-based web application called Go CoffeeShop in both development and production environments using DevOps practices.

Source code: https://github.com/Chuc-Thien-DevOps-Final-Project

Team size: 1

Responsibilities:

- Spearheaded DevOps practices for the Go CoffeeShop microservices application, covering full lifecycle management from infrastructure to monitoring.
- Designed and implemented IaC with Terraform for AWS resources (EC2, EKS, VPC, Security Groups, S3), ensuring scalable and automated infrastructure provisioning
- Built robust CI/CD pipelines using GitHub Actions for automated image scanning, ECR pushes, and continuous deployment via Argo CD with GitOps.
- Deployed applications to Kubernetes (EKS), ensuring high availability and HTTPS domain integration.
- Established comprehensive monitoring with Datadog, including dashboards and an alerting system for proactive issue detection and resolution.

Project: Observability System

Sep 2024 – Nov 2024

A observability system for deploying microservices applications on a Kubernetes cluster using Datadog and technologies such as Terraform, Checkov, SonarQube, Docker, Trivy, Jenkins, AWS EKS, and Helm.

Source code: https://github.com/TranChucThien/NT531.P11-Observability_Systems.git

Team size: 2

Responsibilities:

- Created Jenkins pipeline files to automate the CI/CD process.
- Developed scripts to install Helm on the EKS cluster and utilized Helm to deploy and configure the Datadog agent on the Kubernetes system.
- Built dashboards to address monitoring requirements and facilitate error isolation.
- Designed and implemented an alerting system for the EKS cluster to ensure proactive issue detection and resolution.