

Thiện Trần

DevOps Engineer

Tam Binh, HCM City • (+84) 971 863 707 • thientran03.it@gmail.com • <https://www.linkedin.com/in/thientr18/>
• <https://github.com/thientr18> • <https://tran-thien.id.vn/>

Summary

DevOps Engineer with hands-on experience building and deploying cloud-hosted applications using AWS, Docker, Terraform, Ansible, and CI/CD automation workflows. Skilled in infrastructure provisioning, containerization, monitoring, reverse proxy configuration, and production deployment practices across Linux-based environments. Familiar with cloud-native architecture, Infrastructure as Code (IaC), observability, and secure deployment pipelines.

Skills

Cloud & Infrastructure: AWS (EC2, S3, CloudFront, Route 53, IAM, CloudWatch), DigitalOcean, Linux

Infrastructure as Code: Terraform, Ansible

Containerization & Orchestration: Docker, Docker Compose

CI/CD: GitHub Actions, Jenkins

Monitoring & Observability: Prometheus, Grafana, Node Exporter, Alertmanager, CloudWatch

Networking & Web Servers: Nginx, Caddy, HTTPS/TLS, Reverse Proxy, DNS

Backend & Databases: Node.js, Express.js, PostgreSQL, MySQL, MongoDB, Redis

Tools: Git, GitHub, Bash

Languages: English (IELTS 6.0), Japanese (Currently learning)

Projects

CINEMAHUB – Movie Reservation System

April 2026 – May 2026

- Architected and deployed a cloud-hosted movie reservation platform on AWS using EC2, S3, CloudFront, Route 53, Docker, and GitHub Actions.
- Designed secure frontend delivery architecture using CloudFront CDN with Origin Access Control (OAC) and private S3 bucket access.
- Implemented CI/CD pipelines using GitHub Actions with IAM OIDC authentication, S3 deployment automation, CloudFront cache invalidation, and AWS SSM-based backend redeployment.
- Configured HTTPS termination and reverse proxy routing using Caddy with automatic Let's Encrypt certificate renewal.
- Implemented infrastructure security practices including least-privilege IAM access, restricted SSH exposure, rate limiting, and environment-based secret management.
- Configured CloudWatch monitoring, automated EBS backups, PostgreSQL backup workflows, and infrastructure recovery strategies.
- Optimized infrastructure cost and performance using ARM64 EC2 instances, Docker multi-stage builds, and separate EBS data volumes.
- Seeded database with 50+ movies, 800+ showtimes, and 87k+ generated seats for realistic production-scale workflows.

Technologies: AWS (EC2, S3, CloudFront, Route 53, IAM, CloudWatch, SSM), Docker, GitHub Actions, PostgreSQL, Redis, Linux, Caddy, Node.js, Express.js

Repository: <https://github.com/thientr18/movie-reservation-system>

Live Demo: <https://cinemahub.tran-thien.id.vn>

Production Deployment Pipeline for MERN Application

DevOps Engineer

March 2026

- Provisioned cloud infrastructure on DigitalOcean using Terraform and automated server configuration with Ansible.
- Built Dockerized frontend, backend, database, Jenkins, Prometheus, and Grafana services using Docker Compose orchestration.
- Implemented CI/CD pipelines with GitHub Actions and Jenkins for automated build, deployment, and container lifecycle management.
- Configured monitoring and observability stack using Prometheus, Grafana, Node Exporter, Blackbox Exporter, and Alertmanager.
- Set up Nginx Proxy Manager with automated HTTPS/TLS certificates using Let's Encrypt.
- Implemented webhook-triggered deployment workflows, SSH-based automation, and secret management practices.
- Applied Infrastructure as Code (IaC) and containerization best practices for reproducible deployments and operational consistency.

Technologies: Terraform, Ansible, Docker, Docker Compose, Jenkins, GitHub Actions, Prometheus, Grafana, Nginx, DigitalOcean, Linux

Repository: <https://github.com/thientr18/mern-todo-devops>

Experience

BRAIN-LIFE

HCMC

Software Engineer Intern

May 2025 – September 2025

- Developed Android-based biofeedback games integrated with EEG headband devices for cognitive training and research applications.
- Contributed to the design and development of brain-computer interface (BCI) systems and real-time data workflows.
- Implemented and maintained stable communication pipelines between EEG hardware devices and mobile applications.
- Collaborated with cross-functional team members to improve reliability and performance of EEG signal processing systems.

Education

International University - Vietnam National University HCM City

Expected Dec 2025

Bachelor of Engineering in Information Technology

GPA: **3.14 / 4.0**

Interests

Cloud Infrastructure & DevOps • Observability & Monitoring • AI-Assisted Development