Hoang Dinh Nguyen

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Skills

- Golang, Python, Java, JavaScript, TypeScript, C++, Git, kubebuilder, Go-Chi, Gin, Django, Flask, Node, Express.js, React, Next.js, PostgreSQL, MySQL, NoSQL.
- GCP, Azure, CI/CD, DevOps, Linux, Kubernetes, K8S Operator, Docker, Ansible, CrossPlane, ArgoCD, Github Action, Gitlab CI, Terraform, Prometheus, Thanos, Fluentd, Grafana.
- Software Engineering, DevOps, Platform Engineering, Frontend, Backend, Full-Stack, English.

Experience

Cloud Engineer

Viettel Group

- Successfully developed a comprehensive **DevOps Platform** that enabled 5 large enterprises to achieve developer self-service, integrating essential tools for streamlined software development and management.
- Led the creation of a Cloud Observability service for Viettel Cloud, reducing downtime for customer services by 23% and boosting resource efficiency by 12%.
- Designed and implemented **Viettel Kubernetes Engine** Version Upgrades services, reducing upgrade times by 15% and minimizing disruption risks, leading to a 9% improvement in customer satisfaction and operational efficiency.
- Centralized Kubernetes Secrets management for **Viettel Kubernetes Engine**, enhancing security and simplifying access management for development teams.
- Established a Jenkins system on Kubernetes, automating CI/CD workflows, enabling dynamic container agents, and reducing infrastructure costs by 7%.
- Deployed and maintained applications and monitoring system for **Viettel Telecom's invoice** on a multi-cloud Kubernetes cluster, reducing deployment times by 8% and improving scalability to handle a 5% increase in transactions.

Software Engineer

 $Viettel\ Group$

Hanoi, Vietnam Aug 2022 to Dec 2022

- Developed a high-performance backend for real-time camera data processing using Golang (go-chi, gin) and Python (Flask, Django), improving scalability and reducing latency by 10%.
- Built an online camera viewing platform with Next.js, boosting user engagement by 12% and enhancing customer satisfaction.

Education

VNU University of Engineering and Technology

Degree of Engineer in Information Technology (Honors Program)

- ECE Pioneering Competitive Scholarship UTSA
- Research Focus: Cloud Computing, Software Engineering, AI.

Projects

- Kusion: Developed an intent-driven Platform Orchestrator as the core of an Internal Developer Platform (IDP) using Go, Go-Chi, Terraform, and Kubernetes. (Jun 2024)
- Cluster API Upgrade Operator: Designed a Kubernetes Operator to manage multi-cluster upgrades, enhancing reliability with Go, kubebuilder, and ClusterAPI. (Oct 2023)
- **Project Management**: Built a full-stack web application for Agile Project Management, improving team collaboration with TypeScript, React, ExpressJS, and PostgreSQL. (Jun 2022)
- Game SuperBomberman 2: Developed the UI and implemented algorithms for monster navigation and bomb evasion using Java and libGDX. (Sep 2021)
- **Dictionary**: Created an online/offline dictionary supporting multiple languages with Java, JavaFX, JFoenix, and SQL. (Jul 2021)

Conferences

- Conf42 DevSecOps 2024, Open Tech Summit 2024, FOSSASIA Summit 2025: Presented Platform Orchestrator solution for building an Internal Developer Platform for Platform Engineers.
- **OpenInfra North America 2024**, **FOSSASIA Summit 2024**: Shared insights on managing multi-cluster Kubernetes upgrades using rolling and blue-green strategies.

Hanoi, Vietnam Feb 2023 to Apr 2025