

Hoang Nguyen

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Skills

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

Experience

Cloud Engineer

Viettel Group

Hanoi, Vietnam

Feb 2023 to Apr 2025

- Developed a comprehensive DevOps Platform, enabling 5 large enterprises to achieve developer self-service, integrating essential tools for streamlined software development and management
- Led creation of a Cloud Observability service for Viettel Cloud, decreasing downtime for customer services by 23% and boosting resource efficiency by 12%
- Designed and implemented Viettel Kubernetes Engine Version Upgrades services, cutting down 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, increasing 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 systems for Viettel Telecom's invoice on a multi-cloud Kubernetes cluster, reducing deployment times by 8% and revamping 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

The Master of Science in Computer Engineering

The University of Texas at San Antonio

San Antonio, TX

- ECE Pioneer Competitive Scholarship

The Degree of Engineer in Computer Networks and Data Communications

VNU University of Engineering and Technology

Hanoi, Vietnam

3.5/4.0

- Honors program participant, researching Cloud Computing, Platform Tooling, and AI Lab
- Overcame over 1900 candidates as a Top 3 Talent Engineer in Cloud Computing at Viettel Digital Talent Competitive

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