

# Steven Nguyen

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## Technologies

**Languages:** Golang, Python, Java, JavaScript, TypeScript, C, C++, Dart, Shell

**Technologies:** Google Cloud Platform (GCP), Amazon Web Services (AWS), Microsoft Azure, Linux, CI/CD, Docker, Kubernetes, Kubernetes Operator, Terraform, Ansible, Crossplane, ArgoCD, GitHub Actions, GitLab CI, Prometheus, Thanos, Fluentd, Grafana, Elasticsearch, TensorFlow, Pandas, NumPy, OpenAPI, Go (Go-Chi, Gin), Python (Django, Flask), Node.js, Express.js, React.js, Next.js, Flutter, PostgreSQL, MySQL, MongoDB, Kafka, Git

## Experience

**Graduate Research Assistant**, UT San Antonio – San Antonio, TX Sept 2025 – Present

- Developed cross-platform mobile applications with Flutter, achieving seamless RCS integration that enhanced user communication features by 40%
- Managed backend server development and AWS infrastructure, optimizing deployment processes

**Cloud Engineer**, Viettel Group – Hanoi, Vietnam Jan 2023 – Apr 2025

- Engineered a comprehensive DevOps Platform that empowered five large enterprise clients to achieve 100% developer self-service, integrated over 15 essential tools for streamlined software development, and increased deployment speed by 30%, significantly enhancing operational agility
- Spearheaded the development of Viettel Cloud's Observability service, reducing customer service downtime by 23%, optimizing resource utilization by 12%, and decreasing incident response times through enhanced monitoring capabilities
- Designed and deployed Viettel Kubernetes Engine Version Upgrades services, reducing upgrade durations by 15%, lowering risk of operational disruption, which contributed to a 9% rise in customer satisfaction scores and overall system efficiency improvements
- Optimized deployment workflows by implementing automated processes for Viettel Telecom's invoice applications on a multi-cloud Kubernetes cluster, decreasing deployment times by 8% and enhancing release frequency to support rapid feature rollouts
- Designed CI/CD system with automated container orchestration with dynamic agents, leading to a 35% increase in system scalability and ensuring seamless handling of peak traffic loads
- Centralized Kubernetes Secrets management for Viettel Kubernetes Engine, enhancing security and simplifying access management for development teams.
- Monitored and maintained application performance metrics through advanced monitoring systems, achieving a 12% improvement in incident response times and maintaining operational stability across multiple cloud environments

**Software Engineer Intern**, Viettel Group – Hanoi, Vietnam Aug 2022 – Dec 2022

- Engineered a scalable backend infrastructure utilizing Golang (go-chi, gin) and Python (Flask, Django), resulting in a 10% reduction in data processing latency and supporting real-time camera feed analytics for over 50,000 concurrent users
- Designed and deployed an intuitive online camera viewing platform with Next.js, increasing user engagement metrics by 12% within the first three months and elevating overall customer satisfaction scores by 8%

## Education

**The University of Texas at San Antonio**, MS in Computer Engineering Sept 2025 - Present

- Granted the ECE Pioneering Competitive Scholarship
- **Coursework:** Computer Architecture, Machine Learning, AI Practicum, Software Engineering

**Vietnam National University, Hanoi**, BEng in Computer Networks and Data Communications Oct 2020 – Dec 2024

## Projects

**Kusion** [github.com/KusionStack/kusion](https://github.com/KusionStack/kusion)

- Intent-driven Platform Orchestrator, core of Internal Developer Platform (IDP) using Go, Go-Chi, Terraform, and Kubernetes

**hoangndst's website** ([hoangndst.com](https://hoangndst.com)) [github.com/hoangndst/hoangndst-homepage](https://github.com/hoangndst/hoangndst-homepage)

- Created a personal portfolio and blog using Next.js, with automatic building, releasing, and deployment for all environments.

**Game SuperBomberman 2** [github.com/hoangndst/bomb](https://github.com/hoangndst/bomb)

- Developed the UI and implemented algorithms for monster navigation and bomb evasion using Java and libGDX

**Project Management** [github.com/hoangndst/pm](https://github.com/hoangndst/pm)

- Project Management web application, team collaboration with TypeScript, React, ExpressJS, and PostgreSQL

## Publications

**Optimizing the Software Development Process with Internal Developer Platform and Kusion** 2024 - 2025

Conf42 DevSecOps 2024, FOSSASIA Summit 2025

**Kubernetes Upgrade Operator + Cluster API: Managing upgrade version of multiple Kubernetes Clusters** 2023 - 2024

OpenInfra North America 2024, FOSSASIA Summit 2024