

# Nguyen Quang Vinh, Software Engineer

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## LINKS

[Github](#), [Linkedin](#)

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## PROFILE

Dynamic software engineer with about five years of experience driving impactful solutions in backend development and system integrations. Expertise in Go, MySQL, and Redis facilitates the creation of scalable and efficient applications, ensuring seamless performance and reliability. Proven ability to collaborate within cross-functional teams and enhance system operations through continuous learning and implementation of best practices. Committed to delivering innovative software solutions that align with business objectives, while embracing challenges in the software development lifecycle.

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## EMPLOYMENT HISTORY

Jun 2024 — Present

### Backend Developer, Smilegate Vietnam

**Stack:** Go, MySQL, Redis, Grafana/Prometheus, Jenkins, AWS, OCI, C

#### Responsibilities:

- Contributed to the development of StoveLink, a gaming streaming service that enables seamless streaming of PC games to mobile devices.
- Developed and maintained backend services using Go, ensuring high performance and scalability.
- Implemented custom load balancing logic based on business requirements, which optimized resource utilization and contributed to improved system reliability.
- Designed and implemented a fault-tolerant caching solution using Redis Cluster, ensuring high availability and low-latency access to frequently queried data across multiple nodes.
- Integrated gRPC for efficient, low-latency communication between microservices, resulting in faster request handling and improved overall system performance.
- Maintained and customized to forked open-source projects, including coturn server for TURN/STUN services and Prometheus C client, ensuring stability and feature enhancements.
- Collaborated closely with cross-functional teams, including SDK developers, QA, and DevOps, to deliver high-quality features.
- Participated in scrum development processes, including sprint planning, code reviews, and daily stand-ups.

Aug 2021 — Jun 2024

### Backend Developer, Data Nest

**Stack:** Go, MySQL, PostgreSQL, Grafana/Prometheus, Redis, GitHub Actions

#### Responsibilities:

- Developed an SMS anti-spam feature using Go and Redis.
- Assisted partner financial institutions (FIs) and Telcos with system integration.
- Led the migration of the documents site from Slate to Hugo.
- Managed CI/CD processes with GitHub Actions.
- Monitored service operations using Prometheus, Grafana, and Loki; maintained and updated dashboard panels and alerts using code and CI system.
- Created a web tool for encrypting and decrypting files before transferring them to or from the server, utilizing Go for backend and Next.js for frontend.
- Contributed to the Tinvey project, a platform that receives customer loans, augments them with additional data from other services, and forwards them to banks and FIs.
- Developed a service to track user behavior, supporting the Tinvey analyst team, using Go and Kafka.
- Designed a service to redirect and remind users with SMS using Go.
- Maintained and contributed to other microservices.
- Served as a backend developer for the Finzone project, a leading information channel and connection portal, facilitating access to quality and reliable personal financial services.

Aug 2020 — Aug 2021

## Backend Developer - Devops Intern, Data Nest

**Stack:** Go, MySQL, Docker

### Responsibilities:

- Maintained and updated a system for customer credit rating and scoring, facilitating access to potential customers utilizing personal finance services.
- Developed multiple microservices, all backend services implemented in Go.
- Built and maintained internal tools to support operational tasks for other teams, leveraging Go and Gin.
- Expanded knowledge and expertise by learning Grafana, Prometheus, Loki, Promtail, DroneCI, and GitHub Actions.
- Contributed to a repository aimed at storing all Grafana dashboard panels and alerts for backup as code, utilizing Jsonnet and Grafonnet.
- Maintained and contributed to other microservice code repositories.
- Conducted code reviews and ensured quality control measures were followed.

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## EDUCATION

Sep 2018 — Sep 2022

Computer Engineering, VNU University of Engineering and Technology (VNU-UET)

CPA: 3.29

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## SKILLS

MySQL

Go

Docker

PostgreSQL

Git

Redis

Python

Kafka

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## PROJECT

### Personal and Team Projects

During my university years, I undertook several pet and class projects:

- **MLS:** A rewrite version of *ls* in Golang with fancy output.
- **Communication in IoT Indoor Positioning System:** Developed a system to calculate current position based on communication from a set of BLE devices, implemented using Python.
- **Line Follower Car:** Engineered a Line Follower Car using C, microcontroller PIC 16F877A, and ESP32 for wireless control.
- **Reyolo:** Reimplemented the YOLOv3 detection algorithm using Python and PyTorch Lightning.
- **Chat App:** Collaborated on a team project to create a messenger clone using Kotlin and Firebase.
- **ComicDownloader:** Developed a tool for downloading comics using Python.
- **MusicLife:** Created a personal music blog using Django.
- **Discord Bot:** Designed and maintained a Discord bot capable of crawling data and generating notifications using Python and PostgreSQL.
- **SDE Sharing:** Contributed to the development of a website facilitating students' sharing of subject slides, serving as a backend developer and database designer, employing Python and SQLite.
- **GUI Dictionary, Bomberman:** Implemented GUI Dictionary and Bomberman games using Java.