

# Nguyen Truong Giang

Senior Software Engineer

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## SUMMARY

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Senior Software Engineer specializing in backend development, microservices, and SaaS platforms. Experienced in Golang, Node.js, and cloud-native architectures, delivering high-performance, scalable solutions. Proven ability to design complex systems and optimize performance.

## TECHNICAL SKILLS

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**Frontend:** React, Next.js, TypeScript, JavaScript, Zod, Zustand

**Backend:** Golang, NestJS, Fiber, Echo, Uber-fx, Gest (in-house framework)

**Databases:** PostgreSQL, MongoDB, ClickHouse

**Data Integration:** Oracle GoldenGate 19

**Event Streaming:** Kafka, NATS

**Message Queue:** RabbitMQ

**Testing:** Ginkgo, Jest, Playwright, Locust

**DevOps & Cloud:** Docker, Docker Compose, Kubernetes, Helm, AWS, Terraform, Ansible

**Observability:** Grafana, Prometheus, Loki, ELK Stack

**CI/CD:** GitLab CI, SonarQube, release-it

**Architecture:** Microservices, C4 Model, POC Development

## EXPERIENCE

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### Senior Backend Developer

May 2021 - Present

*Thudo Multimedia JSC*

*Ha Noi, Vietnam*

- Developed SaaS-based OTT solutions (DAI, Livestream, VOD) using NestJS, Fiber, Echo, and Gin.
- Designed and built **Gest**, a Golang framework inspired by NestJS, reducing coding effort for the team.
- Optimized system performance and conducted stress testing (Locust + Go), achieving 100,000 requests/sec throughput without CDN.
- Contributed to Sigma Media Cluster design and deployment.
- Packaged products for multi-platform distribution (Docker, CentOS, Debian).
- Designed and optimized **ClickHouse database schemas** to handle high-volume event and analytics data for DAI solution, supporting millions of records per day with low-latency queries.
- Implemented partitioning, materialized views, and indexing strategies in ClickHouse.
- Implemented automated release pipeline using **release-it** and GitHub Actions, standardizing deployment across Docker, CentOS, Debian.
- Established code review process with **SonarQube**, enforced quality standards, and mentored team on refactoring legacy code, reducing technical debt.
- Authored technical blogs with AI assistance, creating code examples, diagrams, and tutorials to share best practices and insights on software development and system design.
- Leveraged **AI tools** (Claude, GitHub Copilot) and **Speckit** to accelerate development, improve code quality, and automate repetitive tasks in Golang and NestJS services.
- Understanding Agile and Scrum development processes
- Integrated AI-assisted code generation and suggestions into team workflow, reducing development time for new features
- Awarded **Engineer of the Year 2022 – Team Livestream**.

## Junior Backend Developer

Mar 2020 - Jun 2021

Anvita Company

Ha Noi, Vietnam

- Developed microservices for e-commerce platform, order management.
- Used Golang, PostgreSQL, MongoDB, Docker Swarm, and NATS for distributed systems.
- Built Golang template base code to streamline team development.

## Intern Fullstack Developer

Mar 2019 - Jul 2019

Mobio Vietnam JSC

Ha Noi, Vietnam

- Participated in web application projects using Angular and Flask.
- Applied software development principles and learned project structure best practices.

## PROJECTS

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### Sigma Dynamic Ad Insertion (DAI) | Golang, NestJS, ClickHouse, Kafka, Locust+Go June 2022 – Present

- Built high-performance API and endpoint architecture for the DAI solution.
- Conducted performance testing, achieving 100,000 requests/sec without CDN.

### Sigma Media Server | Golang, Nginx May 2022 – Present

- Developed transcoder system components: plugins, origin, and web UI supporting HLS low latency, catch-up, and JIT VOD.
- Packaged products for multiple platforms (Docker, CentOS, Debian).

### Sigma Livestream & VOD | NestJS, MongoDB, Kafka Aug 2021 – Present

- Developed backend APIs for livestream and VOD services.
- Integrated storage solutions (FTP, S3) and SaaS platform features.

### PLXID | Kubernetes, Docker, GitLab CI/CD, Helm 2025 – Present

- Maintained and optimized the CI/CD pipeline, reducing deployment time for the PLXID application.
- Improved system stability and observability through monitoring and centralized logging using Fluent Bit, Grafana Loki, and Grafana.

### Oracle GoldenGate Research (POC for client) | Oracle GoldenGate, Schema registry, Kafka 2025 – Present

- Researched and implemented data flattening strategies using Oracle GoldenGate.
- Transformed and synchronized complex relational data into flattened structures for analytics and downstream systems.

## EDUCATION

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### VNU University of Engineering and Technology

Ha Noi, Vietnam

Bachelor of Information Technology, GPA: 3.2

2017 – 2023

## CERTIFICATIONS

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**AWS Certified Solutions Architect – Associate** — Sep 2023 – Sep 2026

**AWS Certified Developer – Associate** — Feb 2024 – Feb 2027

**AWS Certified SysOps Administrator – Associate** — Nov 2024 – Nov 2027

**AWS Certified Data Engineer Associate** — Jun 2025 – Jun 2028

**AWS Certified Solutions Architect – Professional** — Nov 2024 – Nov 2027

**AWS Certified DevOps Engineer – Professional** — Aug 2025 – Aug 2028

## CAREER GOALS

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- **Short-term:** deepen the expertise in technology and system design; improve English proficiency.
- **Long-term:** Advance to Senior Software Architect, leading scalable software projects and designing complex systems.