

Nguyen Truong Giang

Senior Software Engineer

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SUMMARY

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

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

Senior Backend Developer

May 2021 - Present

Ha Noi, Vietnam

Thudo Multimedia JSC

- 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.
- Understood 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 <i>Anvita Company</i>	Mar 2020 - Jun 2021 Ha Noi, Vietnam
<ul style="list-style-type: none"> – 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 <i>Mobio Vietnam JSC</i>	Mar 2019 - Jul 2019 Ha Noi, Vietnam
<ul style="list-style-type: none"> – Participated in web application projects using Angular and Flask. – Applied software development principles and learned project structure best practices. 	

PROJECTS

Sigma Dynamic Ad Insertion (DAI) Golang, NestJS, ClickHouse, Kafka, Locust+Go	June 2022 – Present
<ul style="list-style-type: none"> – 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
<ul style="list-style-type: none"> – 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
<ul style="list-style-type: none"> – 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
<ul style="list-style-type: none"> – 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
<ul style="list-style-type: none"> – Researched and implemented data flattening strategies using Oracle GoldenGate. – Transformed and synchronized complex relational data into flattened structures for analytics and downstream systems. 	

EDUCATION

VNU University of Engineering and Technology <i>Bachelor of Information Technology, GPA: 3.2</i>	Ha Noi, Vietnam 2017 – 2023
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CERTIFICATIONS

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

- **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.