Thang Ngo

Senior Software Engineer / Team Lead with Golang Expertise

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Summary

Experienced **Senior Software Engineer** with over 10 years of experience in software development, including **5+ years** of hands-on experience with Golang. I specialize in backend systems and aim to continue focusing on **Golang** in future roles, leveraging my expertise in **microservices**, **CI/CD pipelines**, and **large-scale databases**. Combining 70% hands-on coding with 30% leadership, I manage cross-functional teams and mentor junior developers to drive performance improvements. I am now looking for a new challenge where I can apply my technical and leadership skills to solve real-world problems and drive innovation in a dynamic environment.

Work Experience

Principal Software Engineer with ZaloPay, Zion Corporation

June 2020 - December 2023 · Z06, No.13, KCX Tan Thuan, Q7, HCM, Vietnam

- Led the development of a payment platform supporting over **1,000 merchants**, processing millions of transactions monthly.
- Developed tools for merchants to track and manage transactions, providing real-time updates and improving **database** operations.
- Implemented solutions like **Rate Limiter** and **Circuit Breaker** to prevent API overloads and handle service failures, improving stability and reducing downtime by 30% under heavy traffic.
- Integrated **GraphQL** to efficiently serve multiple platforms, including web and mobile, providing flexible data querying and reducing network requests.
- Built internal tools for **Operations**, **Accounting**, and **Risk teams**, improving compliance and operational efficiency.
- Managed a team of 7-10 engineers, collaborating with **Product Owners** to break down technical tasks aligned with business goals.
- Introduced **CI/CD pipelines**, reducing deployment times by 50% and improving system reliability.

Key Technologies:

Go (Golang), Docker, Kubernetes, Prometheus, Jenkins, GitLab CI/CD, Microservices, Elasticsearch, MySQL, TiDB/TiKV, Kafka, Rate Limiter, Circuit Breaker, GraphQL, Dart

Associate Software Manager with ZaloPay, VNG Corporation

June 2018 - June 2020 · 182 Le Dai Hanh, HCM, Vietnam

- Designed and implemented microservices using **gRPC** and **RESTful APIs**, enabling seamless integration with internal and external systems.
- Optimized the caching system with **Redis** and **Elasticsearch**, reducing response times by 25%.
- Led **database schema** design and optimization to improve data retrieval and performance, reducing query execution times by 20%.
- Worked closely with **stakeholders** from various departments (Product, UX/UI, Operations) to align technical solutions with business needs.
- Led sprint planning and retrospectives, helping the team identify and resolve issues for continuous improvement.
- Developed a **microservices framework**, reducing development time for new features by 20%.

Key Technologies:
Go (Golang), Redis, Elasticsearch, Docker, Kubernetes, gRPC, RESTful APIs, MySQL, PostgreSQL, Kafka

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Lead Mobile Developer with TalkTV, VNG Corporation

May 2015 - May 2018 · 182 Le Dai Hanh, HCM, Vietnam

- Led the mobile development team for Android and iOS platforms, overseeing 5 engineers. Provided technical direction and ensured smooth collaboration with backend teams.
- Conducted team meetings to discuss progress, set short-term goals, and resolve issues, improving productivity by 15%.
- Implemented **Agile processes**, ensuring on-time delivery of product updates.
- Integrated **backend services** with **databases** to ensure data integrity and high performance across mobile platforms.
- Mentored team members in mobile development, helping some transition into full-stack developers.

Key Technologies:
Android, iOS, Swift, Java, Google Cloud Messaging, Firebase, Google Maps API, MySQL

Senior Software Developer with TalkTV, VNG Corporation

August 2012 - May 2015 · 182 Le Dai Hanh, HCM, Vietnam

- Designed backend systems and **optimized database schemas** for better data retrieval and transaction handling.
- Documented **APIs using Swagger** for internal and third-party use, ensuring easy integration and future maintenance.
- Provided guidance to junior developers through **code reviews**, improving overall code quality and reducing bugs by 20%.

Key Technologies:
C/C++, Python, Django, MySQL, Git, Swagger

Senior Web Developer with ThienTan IT Services Co, Ltd.

July 2009 - August 2012 · 3 thang 2, HCM, Vietnam

- Designed and optimized **database schemas** to improve data retrieval speeds for web applications.
- Built and maintained **RESTful APIs** to increase property listings and enhance platform scalability.
- Collaborated with frontend teams to improve user experience, leading to a 25% increase in website traffic.

Key Technologies:
PHP, MySQL, JavaScript, HTML, CSS, WordPress, Drupal, MongoDB, Nginx, Linux

Key Skills

- **Backend Development**: Go (Golang), Microservices, RESTful APIs, gRPC, GraphQL
- **Mobile Development**: Java, Kotlin, Objective-C, Swift, Dart
- **DevOps & CI/CD**: Docker, Kubernetes (used for service deployment), Jenkins, GitLab CI/CD, AWS
- **Databases & Caching**: MySQL, PostgreSQL, TiDB, TiKV, Redis, Elasticsearch
- **Service Communication & Orchestration**: Kafka, RabbitMQ, ETCD, Rate Limiter, Circuit Breaker
- **Monitoring & Tracing**: Prometheus, Grafana, Jaeger, OpenTelemetry, Zipkin
- **Logging & Visualization**: EFK (Elasticsearch + Fluentd + Kibana)
- **System Design & Scalability**: High-performance systems, Distributed systems

- **Team Leadership & Management**: Agile, Scrum, Mentoring, Project Management, Stakeholder Management

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Projects

ZaloPay Merchant Platform

- Led the design and development of a payment system that supports over **1,000 merchants**, processing millions of transactions monthly.
- Integrated monitoring and management tools for both merchants and internal teams, reducing downtime by 20%.
- Developed a reusable **microservices framework** at ZaloPay, enabling faster development of new services and improving scalability.

TalkTV Social Media Platform

- Contributed to the development of **TalkTV**, an online social media platform for idols, game streamers, and viewers, supporting real-time communication with up to **2,000 concurrent users** per room.
- Expanded the platform from **desktop to mobile** (iOS and Android), ensuring essential features for both users and streamers.
- Optimized **real-time interactions** between users and streamers, focusing on low-latency and high-concurrency performance.

Education

Hue college of science, Hue University

Bachelor's degree, Information Technology
2005 - 2009

Graduated with honors.

Goals

I am looking for a new opportunity where I can combine my technical skills and leadership experience to solve real-world problems. My goal is to work in a dynamic environment that challenges me technically, while also allowing me to contribute to team development and project success. I want to apply my knowledge of software development, microservices, and DevOps to create efficient, scalable systems that make a real impact.