

Ta Quang Tung

SOFTWARE ENGINEER

Le Thanh Nghi Street, Hai Ba Trung District, Ha Hoi

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Education

Hanoi University of Science and Technology

Ha Noi, Vietnam

GIFTED STUDENT TRAINING PROGRAM (KSTN), BACHELOR OF COMPUTER SCIENCE

August. 2015 - 2020

- GPA: 3.51/4.0

Skills

Programming	Go, Python, C++14, Java, JavaScript, TLA+
Web	Go gRPC & gRPC Gateway, ReactJS frontend
Databases	MySQL, Memcached, Elasticsearch, Redis, etcd
Languages	Vietnamese (Mother tongue), English (Intermediate)
Other Skills	TDD, Docker, Kubernetes, LaTeX

Experience

Teko Vietnam

Ha Noi, Vietnam

BACKEND DEVELOPER

Nov. 2022 - Present

- (Key Member) Developed & Maintained User-Facing Service for Returning Product Data
- Written in Go & gRPC & gRPC Gateway
- Took ownership in December 2023
- Highest Traffic Service of Teko ERP
- Used Elasticsearch for Complex Searching & Filtering Logics
- Developed a Sharding Mechanism for Cutting or Combining ElasticSearch Indices between Clusters without Downtime
- Migration is Online, Safe and Revertible
- Multiple Tenants can be stored & read from the same or different Elastic Clusters
- Applied Memcached with Lease for Consistent Caching to Reduce x5 Times P95 Latency (using the libraries below)
- Cache Hit Rate > 99%
- Used MySQL Database

Open Source Projects

Ha Noi, Vietnam

BACKEND DEVELOPER

Dec. 2022 - Present

- Developed a Caching Library with Strong Consistency & High Performance
- Support memcache lease for consistent caching
- Support complex batching to improve performance
- Support cache replication for high availability & easily restarting memcached instances without affecting performance
- GitHub Source: <https://github.com/QuangTung97/memproxy>
- GitHub Source: <https://github.com/QuangTung97/go-memcache>
- Applied those Libraries for two high-traffic services of Teko & VNPay

Teko Vietnam

Ha Noi, Vietnam

BACKEND DEVELOPER

May. 2021 - Present

- (Key Member) Developed & Maintaining a Notification System for OTT Messages
- Written in Python with Flask
- Used MySQL Database
- Used Google FCM

Teko Vietnam

Ha Noi, Vietnam

BACKEND DEVELOPER

May. 2021 - Present

- (Key Member) Developed & Maintaining a Voucher Search System for VNPay QR & Bank Cards
- For Core Promotion Logic, Listing & Searching Vouchers & Shops
- Written in Go with gRPC & gRPC Gateway
- MySQL Database
- Elasticsearch for Searching Near By Shops & Storing Logs
- Deployed on Kubernetes with CI/CD
- Took Ownership since July 2022

Hanoi University of Science and Technology

SOFTWARE DEVELOPER

- (Key Member) Developed a Distribution Management System
- Written in GoLang (Backend), JavaScript (Frontend)
- React / React-Router / Material-UI (Frontend)
- PostgreSQL Database
- Redis for Session Storage
- Nginx for Reverse Proxy

Ha Noi, Vietnam

January, 2020 - June, 2020

Hanoi University of Science and Technology

RESEARCHER

- (One Member) Developed a Simple Compiler for the Extended PL/0 Language
- Written in C++11
- Used Flex & Bison

Ha Noi, Vietnam

Aug. 2018 - Dec. 2018

Hanoi University of Science and Technology

SOFTWARE DEVELOPER

- (Key Member) Developed a networked multi-player game: "Chiec non ki dieu"
- Written in Java on Android platform
- Used OpenGL ES 2.x
- Used Protocol Buffer and basic TCP and UDP packages

Ha Noi, Vietnam

Aug. 2017 - Dec. 2017

Interests

Logic, Mathematics, Distributed Systems, Programming Languages, Functional Programming, Database Technologies