

LOC NGO

PERSONAL INFORMATION

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EXPERIENCE

Over the past 15 years, I have held various roles in software development, including Developer, Technical Lead, Technical Consultant, and Software Architect. I've had the opportunity to work at Vietnams largest telecommunications company as well as one of the worlds top 20 material handling firms. Throughout this time, Ive gained extensive knowledge in areas such as internet technologies, client-server architecture, databases, big data, distributed systems, and micro-services; especially, the experience of software and system architecture design.

WORK HISTORY

Fortna, Inc. (Mar 2022 – Now)

*Sr. Software
Solutions
Architect*

I continue to perform essentially the same specialized duties I carried out while in Vietnam, and have also increased my focus on the following areas:

- Established and grew U.S.-based architecture team; facilitated cross-regional knowledge transfer and collaboration.
- Provided architectural guidance to ensure consistency across services; optimized workflows to meet client throughput and cycle time requirements.
- Developed internal technical training materials to upskill engineering teams.

One Mount Distribution (Sep 2020 – Dec 2020)

Consultant

Joined One MD as a Software Architect, I helped:

- Designing end-to-end solution for flow from distribution centers to retail stores.
- Designing system architecture and data modeling to support this process.

Fortna Vietnam (Jan 2017 – Mar 2022)

Software Architect

As the Software Architect at Fortna Product R&D, I was responsible for designing and guiding the technical architecture of the company's Warehouse Execution System (FortnaWES) product suite. Our vision was to position FortnaWES as a market leader in distribution center fulfillment. I also actively contributed to the implementation of FortnaWES to ensure alignment with architectural principles and high-quality standards. My focus areas included:

- Led architecture for FortnaWES, a scalable Warehouse Execution System supporting multi-channel fulfillment across diverse distribution center sizes and product categories.
- Modernized legacy monolithic system to microservices architecture with containerized deployment, enabling cloud readiness and operational flexibility.

- Developed Java-based frameworks that accelerated the creation of lightweight, high-performance, and highly available FortnaWES applications.
- Designed modular UI framework enabling parallel development across teams, improving delivery speed and maintainability.
- Built hardware simulators to streamline development and testing without relying on physical devices.

Finally, I led a small research team focused on exploring new technologies, building proofs of concept, and proposing innovations to enhance and optimize the FortnaWES product suite.

YCTECH (Jan 2016 – Dec 2017)

Founder & CTO

It is small team that was created by me and my friends focusing on out-source area. As a CTO, my focus was on technical strategy, solution design, and problem solving.

Viettel Cyberspace Center

Viettel Group (Feb 2015 – June 2016)

*Backend &
BigData
Developer*

I worked for Viettel Cyberspace Center as a Backend and Big-Data Developer responsible for developing tools and system application for analyzing traffic on large network using many technologies like Kafka, Storm, Hadoop, Zookeeper, etc...

During this time, I was also responsible for the two large-scale projects:

- A system for realtime filtering and blocking spam SMS (Bronze Award in IT World Awards 2016) that handles almost 1,000,000 SMS/minute and successfully block 80-90% spam SMS in the entire carrier network.
- A realtime, large-scale storing and analyzing message system using HDFS and Map-Reduce technology that can handles over 1,000,000 messages/second.

Wala JSC (Feb 2012 – Feb 2015)

*Android Technical
Leader*

I was responsible for developing a messaging application on Android.

Besides developing UI, I spent almost time on benchmarking and improving libraries regarding the connection management, photo optimization, battery life optimization.

CNC Software (Oct 2010 – Jan 2012)

*Android Technical
Leader*

My responsibility was finding the efficient solution for customers bases on their concepts and requirements. It also included designing architecture of mobile application, the communication model with other service and working as developer in some projects.

In addition, I also spent time in research and building a few effective libraries/frameworks to improve development process, optimize UI rendering, battery and improve performance of application.

PERSONAL PROJECT

DronePlugins

Github

<https://github.com/locngoxuan?tab=repositories&q=drone-plugin>

Description

Plugins are used in drone.io for customizing CI/CD pipeline.

Tech-stack

GO, DOCKER

Vulcan

Github <https://github.com/locngoxuan/vulcan>

Description A simple docker-based build tool which brings to you independent and consistent build environment.

Tech-stack GO, DOCKER

Xsql

Github <https://github.com/locngoxuan/xsql>

Description It is a simple library in order to support us build up a native-sql application which is able to switch among database vendors easily

Tech-stack GO

Sqlbundle

Github <https://github.com/locngoxuan/sqlbundle>

Description Sqlbundle is a database migration tool. It manages your database schema by creating incremental SQL changes. Current version is supporting PostgreSQL and ORACLE.

Tech-stack GO

Buildpack

Github <https://github.com/locngoxuan/buildpack>

Description Buildpack is created in order to build up an independent and consistent environment for building and publishing application by using standard containers.

Tech-stack GO, DOCKER

Hermes

Github <https://github.com/hermes-solution>

Description This is centralization logging solution for on-premise docker swarm. Main purposes of its are providing traceability of flow in micro-services system, friendly web interface for debuggability. It also is able to connect to other logging solution like ELK and GrayLog

Tech-stack GO, REACTJS, FLUENTD, CLICKHOUSE

EDUCATION

2021–2021 Stanford Online - Coursera

Certificate Course: Machine Learning

This course provides a broad introduction to machine learning, data-mining, and statistical pattern recognition. Topics include: (i) Supervised learning, (ii) Unsupervised learning, and (iii) Best practices. I also learn how to apply learning algorithms to building smart robots, text understanding, computer vision, and other areas.

2013–2016 Military Technical Academy

*Master of
Information
Systems*

Thesis: *Genetic programming for time series forecasting*

Description: This thesis explored the idea of genetic programming and the

way its predict value in near future. Result was compared with result of ARIMA approach.

My majors are distributed system and machine learning.

2010–2012 Hanoi - Aptech

*Higher Diploma
Software
Engineering*

Learned programming, data structure and algorithms.

Worked with the mini e-commerce projects using PHP, JAVA and learned to build ERP system from scratch using JAVA.

Developed a PHP-based MVC framework.

2006–2010 University of Engineering and Technology, Vietnam National University.

*Bachelor of
Science in
Engineering
Physics*

My majors are math, quantum physics, and nano technology.

I were self learning PHP and joining to build e-library of university.

SKILLS

*Programming
Languages*

JAVA, GO, PYTHON, SHELL SCRIPT
NODEJS, REACTJS

Databases

Postgres, Redis, MySQL, MongoDB, SQLite, Chromadb, LevelDB, Oracle, HBase

Message Brokers

NATS.io, ActiveMQ, RabbitMQ, Kafka

*Tools &
Technologies*

Git, Docker, Nginx, HAProxy
Nifi, Spark, Flink, Storm, Hadoop MapReduce
SQL, NoSQL, Microservices, Distributed System, Big Data

Others

Software and System design, Warehouse Operations, Warehouse Execution System

OTHER INFORMATION

Presentation

2011 · Vietnam PHP day.
Topic: *Building RESTful web-service using PHP*

Languages

VIETNAMESE · Mothertongue
ENGLISH · Good at reading. Listening, speaking and writing are normal