

# NGO XUAN LOC

## PERSONAL INFORMATION

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## EXPERIENCE

Over the last decade, I have held a range of positions related to software development including developer, technical leader, technical consultant and software architect. I also had opportunity to work in the biggest telecom in Vietnam and one of the top 20 worldwide material handling firms in the world. During this time, I gained a lot of knowledge about internet, client-server, database, distributed and micro-services system; especially, the experience of designing software and system.

## WORK HISTORY

<i>Software Architect</i>	2017–Now	Fortna Vietnam	<p>Part of a Fortna R&amp;D division which is responsible for involving investigation, prototyping and development of product, tools and new technology that enhance and augment the FortnaWES product suite which is used in warehouse to manage, orchestrate and optimize order fulfillment process.</p> <p>My work is focus on FortnaWES solution, including:</p> <ul style="list-style-type: none"><li>- Define concept; Design and implement the FortnaWES system and modules inside its.</li><li>- Design and build the core frameworks that speeds up building lightweight, scalable, high availability, and high performance FortnaWES applications. It then is applied in various types of application, including: simple applications (picking engine, packing engine, etc.), complicated applications (order &amp; workflow orchestrator engine, bot-director &amp; missing management system), and auto-machine-based applications (high-speed unit sorter engine)</li><li>- Design and build centralized integrated front-end system, which allows us split the big monolithic UI into many smaller parts. These part can be developed in parallel by difference teams and are easily to be combined together, and then it increases development process.</li><li>- Support teams in transforming our JAVAEE-based legacy system to new solution; analyzing and resolving issue of system, especially performance issues.</li><li>- Research and implement POC for finding new solution, new technology to enhance and optimize FortnaWES solution.</li></ul>
	2016–2017	YCTECH	<p>It is small team that was created by me and my friends focusing on out-source area. As a technical leader of team, my focus was on strategy, solution design and problem solving.</p>
<i>Backend developer</i>	2015–2016	Viettel Group	<p>I worked for Viettel Group as a Backend and Big-Data Developer responsible</p>

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.

2012–2015      Wala JSC

*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.

2010–2012      CNC Software

*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

### ***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

### ***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>

<i>Description</i>	Buildpack is created in order to build up an independent and consistent environment for building and publishing application by using standard containers.
<i>Tech-stack</i>	GO
<i>Github</i>	<b>Hermes</b> <a href="https://github.com/hermes-solution">https://github.com/hermes-solution</a>
<i>Description</i>	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
<i>Tech-stack</i>	GO, NODEJS, FLUENTD, CLICKHOUSE

## EDUCATION

<i>Masters of Information Systems</i>	<p>2013–2015      <b>Military Technical Academy</b></p> <p>Thesis: <i>Genetic programming for time series forecasting</i>  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.</p> <p>Researched on distributed system and machine learning.</p>
<i>Higher Diploma Software Engineering</i>	<p>2010–2012      <b>Hanoi - Aptech</b></p> <p>Learned programming, data structure and algorithms.</p> <p>Worked with the mini e-commerce projects using PHP, JAVA and learned to built ERP from scratch using JAVA.</p> <p>Developed a PHP-based MVC framework.</p>
<i>Bachelor of Science in Engineering Physics</i>	<p>2006–2010      <b>University of Engineering and Technology, Vietnam National University.</b></p> <p>Built some simulation models base on Monto Carlo algorithm.</p> <p>I were self learning PHP and joining to build e-library of university.</p>

## SKILLS

<i>Proficient</i>	JAVA, GO, SHELL SCRIPT
<i>Familier</i>	NODEJS, REACTJS, RUBY ON RAILS, PHP, C
<i>Database</i>	Postgres, Redis, MySQL, MongoDB, SQLite, LevelDB, Oracle, HBase
<i>Tool and Technologies</i>	Git, SQL, NoSQL, Docker, Microservices, Distributed System
<i>Others</i>	Software and System design, Warehouse Operations, Warehouse Execution System

## OTHER INFORMATION

<i>Presentation</i>	<p>2011 · Vietnam PHP day.</p> <p>Topic: <i>Building RESTful web-service using PHP</i></p>
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*Languages*

VIETNAMESE Mother tongue

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