

# NGO XUAN LOC

## PERSONAL INFORMATION

*email* [xuanloc0511@gmail.com](mailto:xuanloc0511@gmail.com)  
*linkedin* <https://www.linkedin.com/in/locngoxuan>  
*github* <https://github.com/locngoxuan>  
*phone* (M) +84 904 566840 · (M) +84 396 224574

## 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.</p> <p>My work is focus on FortnaWES solution including:</p> <ul style="list-style-type: none"><li>- Design and build the core frameworks that speeds up building lightweight, scalable and high performance backend applications and micro front-end system.</li><li>- Support other teams in transforming our JAVAESE-based legacy system to using new architecture.</li><li>- Analyze and resolve performance issue of system.</li><li>- Define concept, technical solution and implement POC of new products from the scratch.</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 for developing tools and system application for analyzing traffic on large network using many technologies like Kafka, Storm, Hadoop, Zookeeper, etc...</p> <p>During this time, I was also responsible for the two large-scale projects:</p> <ul style="list-style-type: none"><li>- 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.</li><li>- A realtime, large-scale storing and analyzing message system using HDFS and Map-Reduce technology that can handles over 1,000,000 messages/second.</li></ul>

<i>Android Technical Leader</i>	2012–2015	Wala JSC
	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.	
<i>Android Technical Leader</i>	2010–2012	CNC Software
	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

<b><i>Vulcan</i></b>	
<i>Github</i>	<a href="https://github.com/locngoxuan/vulcan">https://github.com/locngoxuan/vulcan</a>
<i>Description</i>	A simple docker-based build tool which brings to you independent and consistent build environment.
<i>Tech-stack</i>	GO
<b><i>Xsql</i></b>	
<i>Github</i>	<a href="https://github.com/locngoxuan/xsql">https://github.com/locngoxuan/xsql</a>
<i>Description</i>	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
<i>Tech-stack</i>	GO
<b><i>Sqlbundle</i></b>	
<i>Github</i>	<a href="https://github.com/locngoxuan/sqlbundle">https://github.com/locngoxuan/sqlbundle</a>
<i>Description</i>	Sqlbundle is a database migration tool. It manages your database schema by creating incremental SQL changes. Current version is supporting PostgreSQL and ORACLE.
<i>Tech-stack</i>	GO
<b><i>Buildpack</i></b>	
<i>Github</i>	<a href="https://github.com/locngoxuan/buildpack">https://github.com/locngoxuan/buildpack</a>
<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
<b><i>Hermes</i></b>	
<i>Github</i>	<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

#### Tech-stack

GO, NODEJS, FLUENTD, CLICKHOUSE

## EDUCATION

2013–2015 Military Technical Academy

Masters 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.

Researched on distributed system and machine learning.

2010–2012 Hanoi - Aptech

Higher Diploma  
Software  
Engineering

Learned programming, data structure and basic algorithms. I also learned software development process.

Worked with the mini e-commerce projects using PHP, JAVA and learned to built ERP by myself using JAVA.

Developed a MVC framework base on PHP for 1<sup>st</sup> and 2<sup>nd</sup> final exam.

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

Bachelor of  
Science in  
Engineering  
Physics

Built some simulation models base on Monto Carlo algorithm.

I were self learning PHP and joining in a few projects in university.

## SKILLS

Proficient

JAVA, GO, SHELL SCRIPT

Familier

NODEJS, REACTJS, RUBY ON RAILS, PHP, C

Database

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

Tool and  
Technologies

Git, SQL, NoSQL, Docker, Microservices, Distributed System

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