

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&D division, my division 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">- Designed and built the core framework that speeds up building lightweight and high performance application.- Supported other teams in transforming our JAVAEE-based legacy system to using new architecture.- Analyzed and resolved performance issue of system.- Defined concept, technical solution and implemented POC of new products from the scratch.
	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">- 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.

<div>2012–2015</div> <div>Android Technical Leader</div>	<div>Wala JSC</div> <p>I was responsible for designing and developing core libraries of messaging application that allow user send message and sharing photo with their friends.</p> <p>There first important core libraries are lightweight connection management that manage connection between application and server to avoid lost connection and message missing</p> <p>The seconds is the library for fetching photo from internet then displaying them in application. The photo, after downloading (if image server support chunked-load), is resized or zipped using a few simple neighborhood algorithms. Then, it is saved into disk and memory using LRU algorithm. By applying this library, photo was displayed faster than 25% and application is able to work in older android version has lower memory without to be crashed by memory issue.</p>
<div>2010–2012</div> <div>Android Technical Leader</div>	<div>CNC Software</div> <p>My responsibility was researching and finding the best solution for customers base on their concepts and requirements. It also included designing architecture of application, the way to communicate with other service and joining as developer in some project.</p> <p>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.</p>

PERSONAL PROJECT

	<div>Sqlbundle</div> <div>Github</div>	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
	<div>Buildpack</div> <div>Github</div>	https://github.com/locngoxuan/buildpack
Description		Buildpack is created in order to build up an independent and persistent environment for building and publishing application by using standard containers.
Tech-stack		GO
	<div>Hermes</div> <div>Github</div>	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, NODEJS, FLUENTD, CLICKHOUSE

EDUCATION

*Masters of
Information
Systems*

2013–2015 Military Technical Academy

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.

*Higher Diploma
Software
Engineering*

2010–2012 Hanoi - Aptech

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 1st and 2nd final exam.

*Bachelor of
Science in
Engineering
Physics*

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

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