

NGO XUAN LOC

PERSONAL INFORMATION

email 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&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">- Design and build Micro Front-End System which is able to integrate many independent web applications into only one web application.- Design and build the core framework that speeds up building lightweight and high performance application.- Support other teams in transforming our JAVAEE-based legacy system to using new architecture.- Analyze and resolve performance issue of system.- Define concept, technical solution and implement 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.

2012–2015 Wala JSC

Android Technical
Leader

I was responsible for designing and developing core libraries of messaging application that allow user send message and sharing photo with their friends.

There first important core libraries are lightweight connection management that manage connection between application and server to avoid lost connection and message missing

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.

2010–2012 CNC Software

Android Technical
Leader

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.

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> | Hermes https://github.com/hermes-solution |
| <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 Military Technical Academy</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 Hanoi - Aptech</p> <p>Learned programming, data structure and basic algorithms. I also learned software development process.</p> <p>Worked with the mini e-commerce projects using PHP, JAVA and learned to built ERP by myself using JAVA.</p> <p>Developed a MVC framework base on PHP for 1st and 2nd final exam.</p> |
| <i>Bachelor of Science in Engineering Physics</i> | <p>2006–2010 University of Engineering and Technology, Vietnam National University.</p> <p>Built some simulation models base on Monto Carlo algorithm.</p> <p>I were self learning PHP and joining in a few projects in 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> |
|---------------------|--|

Languages

VIETNAMESE Mothertongue

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