NGUYEN ANH DUC  
**Back-End Developer**

I have 12 years of experience working in software development and have experience with various technologies such as NodeJS, PHP, Angular JS, VueJS, React, Golang, Python. I also have experience in infrastructure work, experience with Kubernetes, Docker, Cloud Infra and set up CI/CD.

# Education

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| **Vinh University of Technology Education** (2009 – 2013) *Software Engineer* |

# Skills

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| **1, Frameworks & Technologies:** NodeJS/ExpressJS/NestJs/Typescript Golang PHP (Laravel) HTML5/CCS3, Bootstrap Angular, Vue JS, React JS Graphql,Microservice  **2, Database:** My SQL, SQL Server, MongoDB, Postgresql  **3, OS:** Window, Ubuntu, CentOS, MacOS | **4, Source control:** Git  **5, Testing tool:** SOAPUI Postman  **6, Tools:** VIM, Visual Studio, Visual studio code |

# Language

English: 600 TOEIC

# WORKing expereience

|  |  |
| --- | --- |
| **Time** | **Company** |
| 12/2020 – Now | LTS Group |
| 09/2019 – 12/2020 | TRAVELCONNECT |
| 05/2018 – 09/2019 | NEXUSFRONTIER |
| 09/2016 – 05/2018 | NEXTECH GROUP |
| 06/2014 – 09/2016 | VMODEV |
| 2009 – 06/2014 | FREELANCER |

# PROJECTS

###### Hexabase

#### Position: Tech lead

#### Project description:

Scalable back-end API with no code.

#### Responsibilities:

## Work as core team member, Join in all technical tasks of project

## Involve in Development tasks o Maintain apicore (golang) builf from 4 years ago

## Create graphql to fetch API from micro service using NestJS (This is a gateway)

## Develop services:

## Hxb-auth (golang): Login by user in system, login and register by auth0.com

## Hxb-payment (nodejs): Use stripe create payment and subscription

## Hxb-organization (nodejs)

## Hxb-nextjs : Create frontend by nextjs (move function from angularjs to reactjs) and it have use recoiljs

## Work with team/client to clarify requirements.

## Create system design, database design.

## Create detailed design, coding, and UT

## Review code and improvement.

#### Technologies:

## Vue JS

## WebSocket, NodeJS (NestJs)

## Golang

## Docker , Kubernetes

## RabbitMQ

## Graphql

## MongoDB/MongooseORM.

## MySql, TypeOrm , Gorm

## AWS

###### Connect2D:

#### Position: Tech Lead

#### Project description:

## A Super chat application. This is a project about chat application and has miniapps inside including poll, calendar, call, todo list.

#### Responsibilities:

## Server network design,

## Configure load balancing,

## Server installation and CI/CD configuration,

## Docker

* + Creating an ECR repository to save repository docker was build
  + Use Docker build and docker push to push image docker to ECR

## Use Amazon Elastic Kubernetes Service to create vpc (creating a public and private subnet), EKS Cluster with Workers (It is cluster in K8S but one of service name EC2), Create Deploy Manifest (dDeploy our application on the created Kubernetes cluster. This pull image in ECR to run in pods ), Create service manifest (This will open port to public)

## Create S3 to upload file and cloundfront to CDN file

## Involve in Development tasks

## Create Amplify aws to register, login, and send OTP when register, login

## Create graphql to fetch API from micro service using NestJS (This is a gateway)

## Create rabbitmq to communicate between micro-service.

## Develop services:

* + Account Service : nodejs + Mysql. I use Mysql for database and <https://pkg.go.dev/database/sql> to connect golang to mysql, below are some functions:
    - 1: Store user. When client login and have token. Client will send token to this service. I check token is valid or invalid. I will save userId of aws user to database.
    - 2: Update profile user.
    - 3: Get profile user
    - 4: Create and update config of user.
    - 5: Send email by SES
    - 6: Create virtual profile
    - 7: Get virtual profile
    - 8: Block user
  + Chat Service: this service uses Nestjs + Mongodb.
    - 1: Create channel for user
    - 2: Invite member to channel
    - 3: Remove member of channel
    - 4: Create conversition
    - 5: Create login to websoket and save client id.
    - 6: Send, receive, read, and mask un read messenger
    - 7: Send notification
  + Note Service: this service use Nodejs + MongoDB. This service to save notes of channel and chat.
    - Create,Update, Delete note of channel
    - Share note to other user in channels
    - Send note to chat conversition
  + Todo service: Nestjs+ MongoDB. This service is similar to Trello.
    - Create default category.
    - Create custome category.
    - Create todo of user.
    - Share toto to other member.
  + Polls: Nestjs + MongoDB. This is poil logic
    - 1: Get list poll
    - 2: Create poll
    - 3: Update poll
    - 4: Share poll to other user.
    - 5: Polling
    - 6: Some function team member handel

#### Technologies:

* WebSocket,
* NodeJS (NestJs)
* Docker , Kubernetes
* RabbitMQ
* Graphql - MongoDB/MongooseORM.
* MySql, TypeOrm
* AWS

###### Dollar for schools:

#### Position: Team lead

#### Project description:

## Manage student and parent information. And connect student lunch service providers.

#### Responsibilities:

* Deploy to server
* Develop new feature, design code architecture construction of the project, workflow
* Work as leader the team
* Involve in Development tasks:
  + Create code base
  + Create table schema
  + Review code
  + Develop services:
    - Register, Login, confirm user, Forgot password
    - Create manage student
    - Create manage parent
    - Create manage teacher
    - Create manage class
    - Create manager supplier
    - Create schedule lunch
    - Create and design logic role
    - And more
* Take part in infrastructure task
  + Setup server php, nginx, MySQL
  + Deploy code to server
  + Setup CI/CI from github action run check unit test and deploy to develop, staging, production

#### Technologies:

* PHP Laravel
* JavaScript ES6/ES7/ES8.
* Mysql
* Vuejs
* Docker
* AWS

###### FINA:

#### Position: Team lead

#### Project description:

## Introducing apartment housing projects, providing loan information. Connecting borrowers and banks. Handling paperwork issues

#### Responsibilities:

* Work as leader the team
* Maintain and develop new features with the product, refactor code & architecture
* Design database, design code architecture construction of the project, workflow
* UI/UX improvement
* Deploy code
* Setup server
* Involve in Development tasks:
  + Create code base NestJs and MySQL
  + Create table schema
  + Develop services:
    - Register, Login, confirm active user, Forgot password
    - CRUD category news
    - CRUD news
    - Create manage loans service
    - Create info real estate project
    - Create upload loan profile to bank
    - Create receive loan application from the bank
    - Calculate the interest rate of the loan
    - Insurance package management
    - Register for insurance
    - Censorship insurance records
* Take part in infrastructure task
  + Setup minikube to delicate server
  + Setup docker registry ubuntu
  + Docker:
    - Setup docker registry ubuntu
    - Use Docker build and docker push to push image to docker registry
  + Use kubectl deploy image docker to cluster (is pod), expose pods

## I use manual deploy..

#### Technologies:

* Kubernetes
* MySQL
* NodeJS (NestJs) & MySQL
* ReactJS
* Ubuntu

###### WASHA:

#### Position: Team lead

#### Project description:

## ERP System - Energy manager at Africa

#### Responsibilities:

* Create detailed design for modules, coding and UT
* Optimize code
* Bug Fixing

#### DeployTechnologies:

* PHP Laravel & MySQL
* React
* Redis
* AWS
* Docker

###### WETRADE:

#### Position: Developer

#### Project description:

## Exchange like remitano and binance

#### Responsibilities:

* Deploy to server
* Develop new feature, design code architecture construction of the project, workflow
* Work as leader the team
* Involve in Development tasks:
  + Create code base
  + Create table schema
  + Review code
  + Develop services:
    - Register, Login, confirm user, Forgot password
    - Create market like remitano in version 1
    - Create market like binance in version 2
    - Create shared wallet in version 2
    - Create token WET by Solidity in version 2
    - And more
* Take part in infrastructure task
  + Setup server php, nginx, MySQL
  + Deploy code to server
  + Setup CI/CI from github action run check unit test and deploy to develop, staging, production
* Create detailed design for modules, coding and UT
* Optimize code
* Bug Fixing
* Deploy
* Maintain

## Design database, design code architecture construction of the project, workflow

#### Technologies:

* PHP Laravel & MySQL
* Nodejs
* Socket.IO
* MongoDB
* Vuejs
* Unbutu
* Docker

# SolidityACTIVITIES

Technology, Sports, Travelling, Singing