

# Tho Pham

Cloud Engineer

With more than 5 years of experience in Golang, NodeJS and .NET Developer work as a software engineer in IoT distributed system, and as a software architect in web development. Design Microservices and end to end solutions with fault tolerance and high availability features with databases such as POSTGRE, MSSQL, MySQL, REDIS, MONGO, INFLUX, and language acknowledge such as Go, .NET and Javascript(NodeJS, ReactJS). Strong cloud engineering focused on Go Developer.



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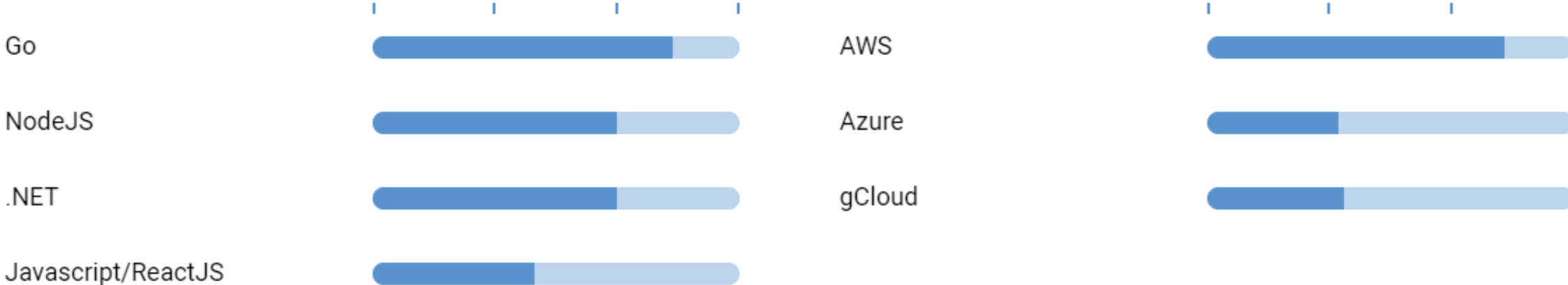
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📍 Ho Chi Minh, Vietnam

✉ nguyencatpham

🌐 github.com/nguyencatpham

## SKILLS



## OTHER SKILLS

Microservice CI/CD Docker IoT Kubernetes MySQL/MSSQL/PostgreSQL Redis/Mongo Influxdb  
Linux/Unix REST/MQTT/RPC Agile/scrum GIT/SVN SOLID Team work Problem Solving

## WORK EXPERIENCE

### Cloud Engineer

OnSky

06/2018 – Present

www.onskyinc.com

Responsibilities

- Analyzing and understanding the business requirement.
- Refactor existing code base by applying proper architecture, pattern, cover with both unit and instrumentation tests.
- Architect and develop stable, scale-able and high availability a micro service based on Go and AWS.
- Responsible for quality of product, quality of code, communicate with customer under supervision of project manager..
- Mentor newcomers, help them catch up with the product business logic and project technologies stack.
- Work closely with Product and other Team to find the solution for new features, requests.

Ho Chi Minh

### Software Engineer

New ocean Information System

01/2016 – 06/2018

https://newoceaninfosys.com/

Responsibilities

- Build Warehouse 3D management on .NET,ThreeJS,NodeJS
- Analyzing and understanding the business requirement
- Maintain a high-quality robust code base

Ho Chi Minh

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## WORK EXPERIENCE

### Web Developer

Ruby

01/2015 – 12/2015

Responsibilities

- Build a small website for introducing for enterprises.
- Maintain websites from customers.
- Build a small Ecommerce project based on .NET and AngularJS.

## PROJECTS

### Cloud service for OnSky Smart home

A cloud solution for the smart home to connect devices, and collect, store, notifications, and analyze device data via the internet.

10/2018 – Present

An IoT Cloud that is designed to store and process the Internet of Things (IoT) data, powered by AWS, describes as a "massively scalable real-time event processing engine." The platform is built to take in the massive volumes of data generated by devices, sensors, applications, customers and partners and initiate actions for real-time responses. The minimum build for 500 concurrent users and 10 000 devices controlled by 20 microservices in more than 30 containers.

- AWS: EC2, ECR, RDS, S3, ROUTE53, SNS, ELASTIC CACHE, LAMBDA FUNC, API GATEWAY, CLOUD FORMATION.
- AZURE: SQL DB, CONTAINER INSTANCE.
- Architecture: Micro-service, IoT pattern.
- Language: Go, .NET, NodeJS, ReactJS.
- Tools: kubernetes, docker, Jenkins.

### nBioT project

A cloud solutions for narrow bandwidth IoT in Vietnamese for OnSky devices.

10/2019 – 02/2020

Vietnam & US

A cloud solutions for narrow bandwidth IoT in Vietnamese for OnSky devices. nBioT is a Low Power Wide Area Network (LPWAN) radio technology standard developed by 3GPP to enable a wide range of cellular devices and services. The project use NodeJS to build MQTT broker to transport message between things (mobile, cloud and sensor devices).

- Technologies:
  - AWS (EC2,S3,ROUTE53,ELASTIC CACHE).
  - NodeJS, ReactJS
  - Kubernetes, Docker.
- Features:
  - OTA (update software of sensor devices over the air).
  - Build MQTT broker and handle message for nbIoT.
  - Notifications, Analyze, Geo location, Tracing.

### Integrated Google home to OnSky Smarthome

Control OnSky devices via Vietnamese voices.

06/2019 – 12/2019

A project build on NodeJS and google cloud platform ( actions and firebase) to control all OnSky devices with Vietnamese voice via Smart Speaker Google Home / Mini / Hub for smart home systems, smart offices, smart meeting...

- GCP (actions, firebase)
- Tools: k8s, docker.
- NodeJS, ReactJS.

### Nopcommerce project

An outsource project about ecommerce build on Nopcommerce open source.

06/2017 – 12/2017

An ecommerce website to trade services of telecommunication by Bridge Alliance. The Bridge Alliance (originally the Bridge Mobile Alliance) is a business alliance of 34 major mobile telecommunications companies in Asia, Australia, Africa and the Middle East. The project using Nopcommerce opensource build on ASP.NET and JQuery. Tools used to are VPN, Git, Team foundation server.

- ASP.NET
- Jquery
- Nopcommerce

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## PERSONAL PROJECTS

Mochuong garden (01/2020 – Present)

- An ecommerce website for sell trees. This project build on NodeJS and ReactJS.

Reewod (06/2017 – 12/2017)

- A food ecommerce website in US allow customer can select chef. Build on NodeJS, ReactJS and React Native. I am in charge of build frontend on ReactJS. More info at https://www.youtube.com/watch?v=Dx1TJsXoJOI

Warehouse 3D (01/2017 – 04/2017)

- Warehouse management project allow employee manage warehouses in 3D model. This project build on .NET, Javascript ThreeJS library for 3D objects.

## LANGUAGES

English Professional Working Proficiency Vietnamese Native or Bilingual Proficiency

## EDUCATIONS & CERTIFICATES

MCSD App Builder 2017 (10/2017 – Present)

Microsoft certificate for App builder.

Ho Chi Minh city of Technology and Education (10/2010 – 12/2014)

Bachelor Degree with Major in Software Engineering

## INTERESTS

IoT ERP Research Cloud development AI Block chain Scrum English

## HOBBIES

Coding Football Social Volunteer Study  
Games History & Geographic Motivation People Dog

## CORONA VIRUS

World 0  
Vietnam 0

## REFERENCES

Nam Phan

"Project Manager"

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