NGUYEN HOANG PHUC

19/10/1996

SUMMARY

About me

I am a Backend Developer with few years of experience working on scalable architectures, distributed computing, microservices, and cloud infrastructures for a global enterprise.

EDUCATION & AWARD

2024

Viettel Programming Challenge 2024

Silver medal - VTP Transportation

☐ Hanoi, Vietnam

- Viettel Group
- · https://viettelfamily.com/news/thoi-su/viettel-programming-challenge-tro-lai-voi-giaithuong-hap-dan

2018

Application of Algorithm Certificate

Ranked 104th overall in the international contest

☐ SAMSUNG Lab

Samsung Electronics Vietnam

2018 2014

Engineer's Degree

Post and Telecommunications Institute of Technology

☐ Hanoi, Vietnam

Major: Software Engineering

2017

SAMSUNG Talent Program

Selected as 1 of only 13 recipients of the Scholarship from PTIT ☐ Hanoi, Vietnam

SAMSUNG Vietnam Mobile R&D Center

EXPERIENCES

Present 06/2024

Viettel Post Co., Ltd.

Department Manager

Project: Transportation Management System (TMS)

Java, Microservices, Al-agent, IoT

Stronger come first

- Developed Smart Transportation Management System enhances logistics operations through advanced route optimization and real-time shipment tracking. It streamlines load planning to maximize vehicle capacity and reduce transportation costs. The system leverages data analytics to provide actionable insights and automated reporting, improving decision-making and overall efficiency in transportation management.
- The Smart IoT Project utilizes ThingsBoard IoT to orchestrate a network of devices, including Al-cameras, fire protection systems, truck sensors, and warehouse sensors. This platform enables real-time monitoring and data aggregation, feeding into a **Digital Twin System** for enhanced predictive analytics and decision-making. By integrating these technologies through ThingsBoard, the project optimizes resource management and improves safety and efficiency across logistics operations.
- · Highlight modules: Camera Al

Smart IoT Lock

Al-Powered Vehicle Routing Optimization

Odometer OCR Scanning

GPS tracking and trip history 24/7 Monitoring & Playback

CONTACT INFO

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SKILLS

Programming:

Java

Dart (Flutter)

Frameworks:

Quarkus

Spring Webflux

Familier with:

JVM, Compiler

MongoDB

Postgresql

MariaDB Kafka

Kubernetes

Prometheus

Grafana

VictoriaMetrics Project Reactor

Architectures:

Microservices

Clean Architecture

Cloud Native Application

Coding style:

Reactive Programming SOLID

English:

B1+

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Created on 16 Dec 2025

05/2024 | 09/2023

Viettel Post Co., Ltd.

Tech Leader (fulltime - 9 months)

Project: Warehouse Sorting System (Robot, Crossbelt, DWS)

Java, Microservices, IoT, Edge Computing

Stronger come first

Developed Warehouse Sorting System for logistics and warehousing, featuring crossbelt sorters, DWS (dimensioning, weighing, scanning) systems, and especial robotic automation across all Viettel Post sortation centers and customers. Using microservices and Edge Computing to build distribution system for handling more than 20,000 goods each minute.
 Building dynamic scenario by Rulebase engine.

 Implement base projects, core platform, library for Viettel Post Projects: MongoDB, Redis, PostgreSQL, MariaDB, MSSQL Server, Oracle R2DBC, S3, Rulebase Engine, Hazelcast, OAuth2Caller, Open Telemetry...

08/2023 | 04/2023

Aargauische Kantonalbank

Backend Development Engineer (remote - 5 months)

Project: Endpoint Security System

Java, SQL, Microservices

Stronger come first

- Implement multi-tenancy mechanism for incoming requests, support routing to several databases each tenant.
- Develop and maintain API serving security system using Spring MVC, interact with SQLServer, MySQL by MyBatis.

03/2023 | 11/2019

Viettel High Technology Industries Corporation

Backend Development Engineer (fulltime - 3 years)
Project: NFV Management and Orchestration System
Cloud Native, Java, MongoDB

Stronger come first

- Developed the 99.99% uptime system which monitors more than a million data
 points per second of 1000 applications, 200 physical servers, 1000 virtual machines
 using **Prometheus** and **VictoriaMetrics**, implement and optimize flexible **PromQL** queries for statistic, performance report via email, subscription.
 Autoconfigure **alerting** and scraping of difference monitored targets.
- Implemented Clustering mechanism for ~50 instances of all microservices in system adapted from scalability, high availability and keep consistency in distributed system using Raft Consensus Protocol/Algorithm.
- Transformed all microservices from Java JIT to AOT by using GraalVM (profiling, agent tracing) to build applications with ~50x startup faster,
- ~5x lower memory footprint and spending less time doing garbage collection.

11/2021 | 06/2020

Aspired Inc

Mobile Application Developer (remote - 1 year 6 months)

Project: The Aspired

iOS/Android, Social, E-commerce Application

- Develop The Aspired iOS/Android Application by cross-platform Flutter on mobile/tablet. Working with Jira and Agile, Scrum
- · Non-profit project

10/2019 | 09/2018

SAMSUNG Mobile Vietnam R&D Center

Software Engineer

Project: SAMSUNG MyFiles Android P/Q/R, File Manager

- Develop SAMSUNG MyFiles Application on Android P/Q/R platform.
- · Joined via SAMSUNG Talent Program.