NGUYEN HOANG PHUC
19/10/1996

SUMMARY

About me

I am a Backend Developer with more than 5 years of experience working on scalable architectures, distributed computing, microservices, and cloud infrastructures for a global enterprise.

Career Direction

I'm focused on driving innovation, building high-performing teams, and delivering impactful technology solutions. My goal is to leverage strategic insight and technical expertise to create scalable, efficient software that meets complex business needs and advances industry standards.

EXPERIENCES

Present
|
09/2023

Business Unit Manager

Viettel Post

Project: Warehouse Sorting System (Robot, Crossbelt), Smart Transportation Management System (STMS)

Java, Microservices, IoT   *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.

- 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 AI-enabled 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.

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

08/2023
|
04/2023

Backend Development Engineer

Aargauische Kantonalbank

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

Backend Development Engineer

Viettel High Technology Industries Corporation (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

CONTACT INFO

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SKILLS

Programming:

Java
Dart (Flutter)

Frameworks:

Quarkus
Spring Webflux

Familier with:

Prometheus
VictoriaMetrics
JVM, Compiler
Kubernetes
MongoDB
Project Reactor

Architectures:

Microservices
Clean Architecture
Cloud Native Application

Coding style:

Reactive Programming
SOLID

English:

B1+

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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 | **Mobile Application Developer**
06/2020

Aspired Inc (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

10/2019 | **Software Engineer**
09/2018

SAMSUNG Mobile Vietnam R&D Center
Project: SAMSUNG MyFiles
Android P/Q/R, File Manager

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

EDUCATION & AWARD

2024 | **Viettel Programming Challenge 2024**

Viettel Group   Hanoi, Vietnam

- Silver medal - VTP Transportation
- https://viettelfamily.com/news/thoi-su/viettel-programming-challenge-tro-lai-voi-giai-thuong-hap-dan

2022 | **2x Advanced typical labor**
2021

Viettel High Technology Industries Corporation   Hanoi, Vietnam

- As known as Lao dong tien tien
- Achievement

11/2020 | **Mobile Application UI/UX Design**

Capi Creative Agency   Hanoi, Vietnam

- Certificate

2018 | **Application of Algorithm Certificate**

Samsung Electronics Vietnam   SAMSUNG Lab

- Certificate

2017 | **SAMSUNG Talent Program**

SAMSUNG Vietnam Mobile R&D Center   Hanoi, Vietnam

- Scholarship

2018 | **Engineer's Degree**
2014

Post and Telecommunications Institute of Technology   Hanoi, Vietnam

- Major: Software Engineering