Lê Văn Hoàng PHƯƠNG
Backend Engineer

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I am a kind of experienced full-stack Software Engineer.
My career path is to become a technical leader.
Strong on Scientific Research, Mathematics, and back-end development.
I possess strong engineering professional with a Bachelor of Engineering Degree in Electrical and Electronics Engineering assessed by AUN-QA (ASEAN University Network Quality Assurance), top-5 GPA 8.46/10.0 in the class of Honors Program of Electronics and Telecommunications Engineering.
With a mind set of Continuous Learning, I always learn to be more valuable and achieve the better of mine.

🎓 EDUCATION

2021 - Now	**Ho Chi Minh City University of Technology - VNU-HCM (HCMUT)**. **Master of Computer Science** Faculty of Computer Science and Engineering
Sep. 2015 - Jun. 2019	**Ho Chi Minh City University of Technology - VNU-HCM (HCMUT)**. **Bachelor of Engineering (Honours) in Electrical and Electronics Engineering** (EEE) assessed by AUN-QA (ASEAN University Network Quality Assurance). Achieved top-10 GPA : 8.46/10.0 in the class of Honors Program of Electronics and Telecommunications Engineering

☰ SKILLS

Methodology	Agile (Scrum, Kanban)
Programming	Java, Python, Go, **Nodejs, Typescript**, Javascript, Flutter Shell, Matlab/Octave, Go
Frameworks	Spring, Express.js, Reactjs, Flask
Database	SQL (**MySQL, Postgres**), NoSQL (MongoDB, Elasticsearch)
Productivity	Bitbucket + Pipeline, Jira, Confluence
Cloud Services	AWS **S3, EKS, SES, ECR**, Firebase **FCM/Auth**
Containerization	Docker
Orchestration	**Kubernetes**
Development tools	Android Studio, Eclipse JEE, VS Code, Maven, npm, git, Jira
Web container	Apache Tomcat
Environment	MacOS, Ubuntu

🔑 STRENGTHS

- Brave, self-motivated, proactive, detail-oriented and customer-focused
- Possessing strong leadership, a clear analytical mind, an acumen, good teamwork, and continuous improvement mindset
- Having problem-sovling, critical thinking skills
- Having strong passion for innovation and emerging technologies
- Fair verbal and written English communication skills
- Able to make presentations to groups, in conferences in English
- Able to handle multiple priorities
- Able to work independently or as a team
- In-depth understanding of Design Principles, Design Patterns
- High adaptability with fast-paced environments
- Worked in Japan, willing to allocate and work overseas
- Familiar with Agile methodology

💼 PROFESSIONAL EXPERIENCE

Sept. 2019
Now

Back-end Lead, Core Back-end, ZMP VIETNAM CO., LTD. , Ho Chi Minh City

Product : Robo Data Platform, an SaaS, one of the key products of ZMP Inc. The platform provides users with Data Visualization, Data Analysis, Data Processing, Data Marketplace, AI Marketplace, Tools, and Algorithms.

Role :
- Core member, main back-end one of a 5-member team
- Backend lead (5 features)
- DevOps

Contributions :
- Regulate project's structure, coding style, documents
- Support Scrum Master to achieve Agility
- Lead features : design Arch - FE - BE → create sub-tasks → implement → release
- Design architectures
- Build, regulate base, core modules shared among services, and utilization
- Build infrastructure : oauth, mailing, scheduled jobs, queued jobs, event system, cache, db storage, file storage, auth, generic paging-sorting-filtering query and aggregation framework, .etc
- Investigate new technologies
- Train & Deploy AI Models, integrate FFT, Octave, Jupyterlab.
- DevOps, **Kubernetes**, Bitbucket Pipelines, AWS resources.
- Collaborate with in-Japan members to design, apply algorithms
- Review, refactor code
- Worked at **ZMP Japan**, in **Tokyo** from Dec. 2019 to Feb. 2020

Result :
- Latest milestones : lead successfully **Marketplace POC**, **Dynamic Kubernetes Workload**, **Docker Pipelines** and self-developed **Git Deployment Pipelines**
- Successful leads : AI Marketplace, IDEs, Advanced Algorithms, Analysis.
- Implement back-ends of **6/9** features.
- Some product increments have been released, demonstrated to stakeholders, and continuously developed.
- Based modules has been shared with other teams
- A demo has been successfully performed at 🔗 ZMP World 2020

`Agile (Scrum)` `Docker-in-Docker GPU` `Kubernetes` `Docker` `Registry` `AWS S3/SES/EKS` `Google OAuth/Drive API` `RESTful` `HATEOAS` `Swagger` `Nodejs` `Typescript` `Python` `Go` `MongoDB` `Postgres` `Gitea` `Redis` `RabbitMQ` `PubSub` `Caching` `Workers` `AI MLOps` `Digital Signal Processing` `pm2` `Shell` `MATLAB/Octave`

Mar. 2019
Sept. 2019

Software Engineer, BLOCKHIVE VIETNAM.,JSC , Ho Chi Minh City

Project : Subaru Auto Accessories (SAA)
Role : one of the main contributors in a 6-member team
Contributions :
- Design screens, write SQL Queries, implement data binding and interaction logic of a sales application of SAA.
- Write Oracle-to-SQL tool to ease the attempts to convert SQL statements

Result : the contributed was recognized and is being developed further.

`.NET (C#)` `WPF` `MyBatis` `Oracle DB` `MSSQL`

Mar. 2018

Product owner, scrum master
Backend Engineer, VULETECH , Ho Chi Minh City

Mar. 2019

Project : Unilever Vehicle Management System (**UVMS**) is an AI-based plate recognition and container management platform that helps reduce paperwork and automate the checking process
Role : leader of a 3-member team (Scrum master)
Contributions :
- Follow Agile methodology to manage team and develop the product
- Support and supervise technical of development teams
- Analyze requirements, design system architecture
- Set up infrastructure, design and implement database, APIs
- Integrate Artificial Intelligence (Vehicle and plate recognition) and Cameras
- Propose web and AI server configuration
- Deployment the web app, AI process and delivery
- Monitor system, fix bugs, backup and migrate database

Result : the developed system was deployed and are being used stably at **Unilever Vietnam Factory**

`Agile with Trello` `Spring MVC` `Hibernate` `MySQL` `Tomcat` `Restful`

Jan. 2018 Mar. 2018	**Software Engineer (Contractor), TMA Solutions, Ho Chi Minh City** **Project :** BlueCat Networks - a desktop app for DNS/DHCP management, allocating IPs **Role :** member of a 6-member team **Contributions :** ❯ Maintain, develop new features for BlueCat DNS/DHCP Server **Result :** the contributed was recognized and delivered to the customer. `Java` `Swing` `Eclipse` `Maven`

🖥 CERTIFICATES

AGILE WITH ATLASSIAN JIRA
MAY 17, 2020 – JUNE 19, 2020

🔗 Certificate   🔗 Course

- ❯ Offered by Atlassian, verified by Coursera
- ❯ Instructors : Steve Byrnes, Instructional Designer
- ❯ Expiry : No

SOFTWARE PROCESSES AND AGILE PRACTICES
MAY 11, 2020 – JULY 7, 2020

🔗 Certificate   🔗 Course

- ❯ Offered by University of Alberta, verified by Coursera
- ❯ Instructors : Kenny Wong, Associate Professor, University of Alberta
- ❯ Expiry : No

PARALLEL PROGRAMMING IN JAVA
JUNE 19, 2020 – AUGUST 9, 2020

🔗 Certificate   🔗 Course

- ❯ Offered by Rice University, verified by Coursera
- ❯ Instructors : Prof. Vivek Sarkar, Department of Computer Science
- ❯ Grade Achieved : 98.50/100
- ❯ Expiry : No

`Dataflow` `Parallel Computing` `Java Concurrency` `Data Parallelism` `Parallelism` `Determinism` `Data race`

BUILDING SCALABLE JAVA MICROSERVICES WITH SPRING BOOT AND SPRING CLOUD
MAY 11, 2019 – MAY 31, 2019

🔗 Certificate   🔗 Course

- ❯ Offered by Google Cloud, verified by Coursera
- ❯ Instructors : Google Cloud Training
- ❯ Expiry : No

`Qwiklabs` `Runtime configurations` `Cloud SQL` `Cloud Spanner` `Stackdriver` `Cloud Pub/Sub` `Cloud APIs` `App Engine` `Prometheus` `Kubernetes Engine`

ACHIEVING ADVANCED INSIGHTS WITH BIGQUERY
JUNE 21, 2020 – JULY 13, 2020

🔗 Certificate   🔗 Course

- ❯ Offered by Google Cloud, verified by Coursera
- ❯ Instructors : Google Cloud Training
- ❯ Expiry : No

`BigQuery` `Google Cloud Platform` `Cloud Computing` `SQL`

ADVANCED RELATIONAL DATABASE AND SQL
JULY 1, 2020 – JULY 2, 2020

🔗 Certificate   🔗 Course

- ❯ Offered by Coursera Project Network, verified by Coursera
- ❯ Instructors : Harrison Kong, Subject Matter Expert/Instructor
- ❯ Expiry : No

GOOGLE CLOUD PLATFORM FUNDAMENTALS : CORE INFRASTRUCTURE
MAY 17, 2020 – JUNE 30, 2020

🔗 Certificate   🔗 Course

- ❯ Offered by Google Cloud, verified by Coursera
- ❯ Instructors : Google Cloud Training
- ❯ Expiry : No

`Google Compute Engine` `Google App Engine (GAE)` `Google Cloud Platform` `Cloud Computing`

RESTful API with HTTP and JavaScript
MAY 11, 2020 – JUNE 19, 2020

% Certificate   % Course

> Offered by Coursera Project Network, verified by Coursera
> Instructors : Harrison Kong, Subject Matter Expert/Instructor
> Expiry : No

`Representational State Transfer (REST)` `JavaScript`

Getting Started with Google Kubernetes Engine
MAY 17, 2020 – JUNE 21, 2020

% Certificate   % Course

> Offered by Google Cloud, verified by Coursera
> Instructors : Google Cloud Training
> Expiry : No

Version Control with Git
MAY 11, 2020 – MAY 17, 2020

% Certificate   % Course

> Offered by Atlassian, verified by Coursera
> Instructors : Steve Byrnes, Instructional Designer
> Expiry : No

`Version Control Bitbucket Command-Line Interface`

Southeast Asia Machine Learning School
JULY 8, 2019 – JULY 12, 2019

% Course

> Instructors : top-tier international machine learning experts
> Expiry : No

📰 PUBLICATIONS

BLE-based Indoor Positioning System for Hospitals using MiRingLA Algorithm
2019

% stdjet.scienceandtechnology.com.vn

P. Le Van Hoang and V. Quang, "BLE-based Indoor Positioning System for Hospitals using MiRingLA Algorithm", Science & Technology Development Journal - Engineering and Technology, vol. 2, no. 1, pp. 46-59, Sep. 2019.

🏆 ACHIEVEMENTS

Third prize in Bach Khoa Innovation 2019
MAR. 15, 2019 - JUN 30, 2019

% Bach Khoa Innovation 2019   % Viral Video   % Gallery   % on Life in TMA   % Fanpage

Bluewave team has won the 3rd prize with project "BLE-based Indoor Positioning System"

🖥 PROJECTS

Go multi-room chat
2020 - 2020

% Github   % dockerhub

Project : chat Application provides users with ability to join an existing room or anther new room via QR Code.
Role : primary contributor in the Real-time Multi-room Chat Application written in Go.
Contributions
> Design, and implement back-end's logic like generating a unique QR code for each room, managing rooms.

Result : first version Go-First-Pet supports real-time updated messages, multi-rooms, QR code containerized by Docker was published on my public Github repo. An docker image has been published to DockerHub and gained more than 40 pulls from the community.

`Golang` `MVC` `WebSocket` `Docker`

🌐 Languages

Vietnamese ● ● ● ● ●

English (TOEIC 835/990) ● ● ● ● ○

❝ References

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