

Lê Văn Hoàng PHƯƠNG

Senior Back-end Engineer

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I am a kind of experienced Back-end 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), GPA 8.46/10.0 in the class of Honors Program of Electronics and Telecommunications Engineering.

I am really willing to learn new domain knowledge, languages.

My career path is to become a CTO. With a mindset 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-solving, 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

April 25, 2019 Now	<p>Senior Analyst, Engineer (Senior Back-End Engineer) , NATIONAL AUSTRALIA BANK (NAB) , Etown Central, Ho Chi Minh City</p>
October 1, 2019 April 23, 2022	<p>Back-end Lead, Core Back-end, ZMP VIETNAM Co., LTD. , Ho Chi Minh City</p> <p>Product : 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.</p> <p>Role :</p> <ul style="list-style-type: none"> > Core member, main back-end one of a 5-member team > Backend lead (5 features) > DevOps <p>Contributions :</p> <ul style="list-style-type: none"> > 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 <p>Result :</p> <ul style="list-style-type: none"> > Latest milestones : lead successfully Marketplace POC, Dynamic Kubernetes Workload, Docker Pipelines and self-hosted open-source git server > 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 <div> Agile (Scrum) Docker-in-Docker GPU Kubernetes Docker Registry AWS S3/SES/EKS Google OAuth/Drive API </div> <div> RESTful HATEOAS Swagger Nodejs Typescript Python Go MongoDB Postgres Gitea Redis RabbitMQ </div> <div> PubSub Caching Workers AI MLOps Digital Signal Processing pm2 Shell MATLAB/Octave </div>
March 1, 2019 Sept. 30, 2019	<p>Software Engineer, BLOCKHIVE VIETNAM.,JSC , Ho Chi Minh City</p> <p>Project :Auto Accessories (AA)</p> <p>Role : one of the main contributors in a 6-member team</p> <p>Contributions :</p> <ul style="list-style-type: none"> > Design screens, write SQL Queries, implement data binding and interaction logic of a sales application of AA. > Write Oracle-to-SQL tool to ease the attempts to convert SQL statements <p>Result : the contributed was recognized and is being developed further.</p> <div> .NET (C#) WPF MyBatis Oracle DB MSSQL </div>

Mar. 2018	Product owner
Mar. 2019	Backend Engineer, VULETECH , Ho Chi Minh City Project : 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 : <ul style="list-style-type: none"> › 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 <i>a famous F&B company's factory in Vietnam</i>
	<div>Agile with Trello</div> <div>Spring MVC</div> <div>Hibernate</div> <div>MySQL</div> <div>Tomcat</div> <div>Restful</div>
Jan. 2018	Software Engineer (Contractor), TMA SOLUTIONS, Ho Chi Minh City
Mar. 2018	Project : Blue - a desktop app for DNS/DHCP management, allocating IPs Role : member of a 6-member team Contributions : <ul style="list-style-type: none"> › Maintain, develop new features for Blue DNS/DHCP Server Result : the contributed was recognized and delivered to the customer.
	<div>Java</div> <div>Swing</div> <div>Eclipse</div> <div>Maven</div>

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 another 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

› English CEFR C1

REFERENCES

Dr. Truong Quang Vinh

Vice Director, Office for International Study (OISP) , HO CHI MINH CITY UNIVERSITY OF TECHNOLOGY - VNU-HCM

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