

DO VUONG PHUC

SOFTWARE ENGINEER

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ABOUT ME

A backend engineer with 3 YoE in software engineer field. I am goal-oriented, dedicated to my work, and always open to new experiences, especially those related to my field of study, to enhance my coding practice.

I have gained many from being a leader of group projects, which is why problem-solving, presentation and leadership skills are not weaknesses of mine. I have a strong passion for software engineering and computer science.

ACADEMIC BACKGROUND

University of Science (HCMUS)

Artificial Intelligent major | 2019 - 2023

- Bachelor in Information Technology (**GPA: 3.94/4**)
- **Graduated valedictorian (Top 1)**

LANGUAGE

- **English:** IELTS Academic Certificate 6.5 (B2 level)

ACHIEVEMENTS

- **Valedictorian graduated** with the **highest GPA**
- **Top-rated lancer** with job **success rate of 100%**
- Scholarship for the excellent student each semester
- Step STEM Alive - Singapore - 4th Runner-up prize
- Excellent Students in Informatics Contest - 3rd prize
- 30/4 Olympic contest 2018 - **Gold medal**
- 30/4 Olympic contest 2017 - **Gold medal**

SKILLS

Programming language

- Java, Python, Rust, JavaScript, C++

Software engineering

- Spring, Jenkins, SonarQube, Grafana
- Docker, Helm chart, Kubernetes (K8S), Nginx
- MSSQL, MySQL, Postgre, MongoDB
- GitHub, CI/CD, Swagger, Jira, Trello

Distributed system

- Elastic search (ELK), Kafka, Redis
- ZooKeeper, HDFS, Airflow, Spark, Hive

Machine learning

- WEKA, KNIME, Tableau, PowerBI, Sk-learn
- PySpark, PyTorch, TensorFlow

WORK EXPERIENCE

Backend Engineer

Naver Vietnam | Korean market | March 2023 - Present

- Design and develop large-scale zero-downtime systems using Java Spring & distributed systems on Naver cloud.
- Responsible with DevOps task (e.g. build CI/CD pipeline).
- Build SLI charts & do monitoring the system.

Freelance Software/Data Engineer

Upwork | International market | November 2022 - March 2023

- Develop tools and utilities (e.g. syntax checker, trading probabilistic calculator), analyze data, and build machine learning models.

Blockchain Developer Intern

VBPO JSC | Vietnam market | May 2022 - Oct 2022

- Research blockchain technologies and develop a blockchain-based application for real estate. Full-stack development using NEAR and Aurora Engine.

SOFTWARE PROJECTS

Naver Blog (블로그)

- **Blog on map**
 - Design & implement the map feature for the Naver Blog service, which display over **184M user's blogs** on Naver Map and Google map.
 - Migrate data from a source-of-truth using Kafka which can serve up-to **1000 message per second**.
 - Optimized the maximum page-fetch latency **from 30 seconds to 0.3 seconds** for a page with **65.000+ map locations**.
- **Blog RSS**
 - Implement RSS feed feature to provide top 50 latest posts of a user.
 - Leveraging Vitess database to provide a more high-availability system and sharding **4TB data of posts**.
- **Techstack:** Spring boot, K8S, ELK, Kafka, Redis, Nginx, SonarQube, Zookeeper, Vitess, CQRS pattern.

Naver BBoom (뽀)

- Maintain a social network service for more than **6M users** to shares humor and meme posts.
- Migrate system from Server-side rendering (SSR) to Client-side rendering (CSR) without downtime.
- Optimized many features of the legacy system (e.g. search feature, favorite post feature).
- **Tech stack:** Spring boot, Spring integration, K8S, ELK, Redis, Slave-master MySQL, Nginx, Jenkins, HDFS, SonarQube, Zookeeper.

MACHINE LEARNING PROJECTS

Deep Q-learning Snake

- Develop Snake game as an environment to train the DQN model and integrate it with the A* algorithm.
- Achieve the **1st prize** in a university contest which to find the solution for Snake game.
- **GitHub:** [DQN Snake repository](#)

Dog and cat classification and detection

- Leverage the CNN model and transfer learning to classify, detect cats, and dogs in an image.
- **Kaggle:** [Kaggle notebooks](#)
- **GitHub:** [GitHub repository](#)

WORKING REFERENCES

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PUBLICATION

Unifying Global and Local Scene Entities Modelling for Precise Action Spotting

- Propose a method to improve current action spotting vision models by unifying global and local feature.
- The method not only help AI model improving the accuracy but also more explainable
- By applying the GLIP - a zero-shot learning model of Google, the method can apply on arbitrary sports.
- **Publisher:** [WCCI IJCNN 2024](#)
- **Presentation:** Yokohama - 30 June
- **GitHub:** [Github repository](#)

Product recommendation for Huimitu e-commerce using Association Rule with KNIME

- Story about how I built a recommendation system for an e-commerce (named Huimitu) system, using KNIME.
- **Publisher:** Medium - Low Code for Data Science