

# DUNG. PHAM QUAN TIEN

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## Languages and Technologies

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- Programming languages: **Java, Javascript / TypeScript**, Golang, Elixir
- Frameworks / Libraries: **Spring Boot, Hibernate, Nest.js, React.js**, Tailwind.css, AntUI
- Databases / Queues: **MySQL, Elasticsearch**, Postgresql, MongoDB, Redis
- DevOps: **Docker, Nginx**, CI/CD, ELK, CDN
- Languages: Vietnamese, English

## Work Experiences

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### MCVGo

*Full-stack Developer (Java + React), Full-time*

*Vietnam, June. 2021 - now*

- Build a realtime interactive system to organize gaming sessions like Kahoot, Confetti (Facebook)
  - Apply Actor model (Akka) to optimize concurrency
  - Support multi-instances where each instance can handle 10k concurrency users on a machine have 8GB RAM 4vCPU
- Configure the CI/CD system using Github Actions for the whole team
- Configure the logging system using ELK with hot-warm-cold architecture to optimize storage capacity
- Architectural proposal for payment system
- Architectural proposal for notifications system

### SWAT Mobility

*Back-end Developer (Elixir), Full-time*

*Remote (Singapore), Apr. 2021 - May. 2021*

- Developed a Slack rate limiting and persisting message by using RabbitMQ and Elixir
- Convert some features from Golang to Elixir

### LINE Coporation

*Back-end Developer (Java), Full-time*

*Vietnam, Oct. 2020 - Apr. 2021*

- Developed a service that helps operators track metrics of machine learning models.
  - Optimize some old queries to reduce RAM consumption by 50%
  - Design new tables (MySQL), develop API(s)
- Built a system that tracks user feedback on LINE ads.
  - Migrating some features from Golang (Gin) to Java (Spring).

### Zalo Group - VNG Corporation

*Software Engineer (Full-stack), Full-time*

*Vietnam, Aug. 2019 - Sep. 2020*

- Built an SSO system based on OAuth flow and Zalo's 3rd login API:
  - Implemented an SSO server to handle user sessions.
  - Implemented a Java + Angular library support 3rd integration.
  - Found a security issue of Zalo's 3rd login API which can lead to a fishing scenario.
- Built an SSH Permission management system, which manages about 1200 servers at Zalo:
  - Implemented a datastore server using Java (Servlet) to persist data in Zalo's in-house key-value database, and Elasticsearch for the search feature.
  - Implemented an API server using Java (Servlet), and communicate with the datastore server through Apache Thrift.
  - Designed and implemented a UI using React and Ant.design for both desktop and mobile.
- Built an activity monitoring tool like Kibana's discover:

- Deployed Elasticsearch hot-warm cluster to limit storage size.
- Implemented an API server using Java (Servlet), and Elasticsearch for query millions of logs.
- Designed and implemented a feature-rich UI with friendly UX using React and Ant.design which easy to use and understand.
- Participate in the first sprint of the Employee Management (HRBP) system, where I did:
  - Designed architecture and database schema (MySQL).
  - Implemented a datastore server and an API server using Java (Servlet).
  - Designed and implemented UI using React and ElementUI for both desktop and mobile.

### **ZaloPay - VNG Corporation**

*Software Development Collaborator, Full-time*

*Vietnam, Feb. 2019 - Jul. 2019*

- Participate in developing website <https://docs.zalopay.vn> (JAMStack + Golang).
- Technical support for Merchants to successfully integrate ZaloPay into their system.

*Software Development Fresher, Part-time*

*Vietnam, Oct. 2018 - Feb. 2019*

- Learn Golang, Linux, Docker, Microservice, Nginx, ZaloPay models...
- Convert a small service from Java (Spring) to Golang (Beego).
- Made some UI according to the design using HTML/CSS/JS.

### **ELCA Vietnam**

*Java Web Intern, Full-time*

*Vietnam, Jul. 2018 - Sep. 2018*

- Learn Java 8, Servlet, Spring Framework, ORM, Hibernate, MySQL, HTML/CSS/JS, TypeScript, Angular 6...
- Implemented a simple project management system using what I have learned.

### **Achievements**

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- Third prize, WebDev Hackathon 2019 (UIT).
- Second prize, Olympiad in Informatics for Vietnamese students 2017.
- Second prize, Olympiad in Informatics for HCMUS students 2017.
- Hackerrank Gold medal in Problem solving
- Hackerrank Gold medal in SQL

### **Education**

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#### **University of Science**

*Ho Chi Minh city, Vietnam*

- Major: Information Technology, GPA: 8.52/10.
- Academic club.