

# Tai Vong

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## SOFTWARE ARCHITECT

Motivated and results-driven software engineer seeking a challenging position to build great products. Offering a strong foundation in software engineering: cloud computing, distributed system and team management, with a proven ability to drive efficiency, deliver successful outcomes and collaborate within cross-functional teams.

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## PROFESSIONAL EXPERIENCE

### Gearment Inc.

Oct 2023 - Present

Gearment print-on-demand network is going to be a B2B marketplace that connects quality products to e-commerce businesses. We use technology to create an ecosystem that supports cross-border and international POD sellers.

#### Technical Lead

- Leading the team of technical enthusiast, ensuring the successful delivery of reliable and scalable solutions.
- Overhauling the company's legacy PHP system, transitioning to modern, high-performance Go microservices to improve efficiency and maintainability.
- Designing and implementing distributed systems to ensure scalability, high availability, and fault tolerance for business-critical applications.
- Driving the company's expansion into fulfillment and warehousing by developing the necessary technical infrastructure to support new operations.
- Collaborating with stakeholders to define technical roadmaps and align projects with strategic business goals.
- Mentoring team members and promoting best practices to foster growth and continuous improvement.

### Geniebook

Aug 2022 - Sep 2023

Geniebook is an Edtech platform provide tools for online learning experience with personalised AI system, including live online lessons, real-time chat system and AI-personalised worksheet generator.

#### Backend Technical Lead

- Transformed the legacy PHP monolith system into a scalable microservices architecture using Go, enhancing system performance and maintainability.
- Supported the migration of technical infrastructure from cloud virtual machines to a Kubernetes-based environment, improving deployment efficiency and scalability.
- Rebuilt the GenieAsk teacher-student product, turning it from an unstable system into a fully functional and seamless solution.
- Redesigned internal admin tools to streamline operational workflows and improve efficiency for internal teams.
- Planned and executed a data migration from the legacy system with zero downtime, ensuring a smooth transition for end users.
- Designed and architected the entire microservices ecosystem, delivering a suite of core services to support the platform's scalability, reliability, and evolving educational needs.

## **Be Group JSC.**

**Mar 2021 - Aug 2022**

Be Vietnam is originally a ride-hailing company. Now it is a multi-service platform providing many services, including transport, delivery, ads and flight booking,...

### **Software Engineer Lead**

- Designed and built the microservices system for the platform, ensuring it is scalable, reliable, and efficient.
- Led the team in developing and maintaining key systems, including file management, notifications, video calling (WebRTC), and the internal API gateway.
- Developed and maintained internal tools and libraries to improve the efficiency of the engineering team.
- Directed the creation of an in-house system for creating, assigning, and evaluating tests and practice activities for specific user groups.

### **Senior Software Engineer**

- Develop the next version of internal framework and revamp core libraries for Go gRPC microservices ecosystem.
- Develop an in-house real-time messaging, mailing & WebRTC calling PaaS, come with a built-in SaaS websocket & notification service, to enhance customer communication.
- Develop in-house case management SaaS for manage customer's supporting ticket to replace the Salesforce CRM with internal performance tracking and evaluation customization.
- Design, plan and drive team to develop in-house driver on-boarding flow management, supporting a new driver complete the registration process.

## **Teko Vietnam**

**July 2018 - Mar 2021**

As one of the key members of VNLife Group, Teko is a SaaS company providing cloud-based platform to promote digital transformation capacity of businesses in retail segment.

### **Backend Software Engineer**

- Develop the Integration system for transforming the old monolith retailer system to a new system with microservices architecture
- Develop a market analysis tools with a crawler crawling competitive products daily.
- Develop the new order system to support offline retail operation, then expand to support multi-channel: telesale and online websites, further with extra components to handle whole order fulfilment flow for different sellers.
- Design and implement the internal framework of next-gen monorepo eCommerce ecosystem in Go gRPC microservices.

## **AILab - HCMUS**

**Jun 2017 - Nov 2018**

Artificial Intelligence Laboratory of University of Science, National University Ho Chi Minh City has the research fields of AI and robotic algorithms

### **Developer**

- Develop MooC system for publishing live online courses from eDX oss, with a code grading for evaluating students' codes in sandbox.
- Compose the learning documents and courses for Python for beginner source
- Develop websites and system to crawl and process Youtube videos to create automatic subtitles for demo our laboratory's main product

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## EDUCATION & CERTIFICATIONS

### Bachelor of Information Technology

Honors Program (GPA: 8.82/10)  
VNUHCM - University of Science

## ACADEMIC PUBLICATIONS

- The New High-Performance Face Tracking System based on Detection-Tracking and Tracklet-Tracklet Association in Semi-Online Mode **(2020)**
- Python programming self-study **(2019)**
- Video segmentation using keywords **(2018)**

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## PROJECTS

### PokerAge Game

**Nov 2021 - May 2023**

- Revamp the game state s2c synchronizing mechanism, making the game from being out of sync and unable to play normally to the state of running with high stability.
- Develop the in-game communication channels: in-game chat and in-game call system with smooth performance based on user reviews.
- Develop the gaming bot for the game mode: NLH, PLO and Short-deck
- Develop the tournament coordinator module that handle the operations for Poker tour, including managing tour formats, tour attendee, tour payout, tour tables arrangement, ...