



Vu Van Hai

**Web App Developer/
Team Leader**

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📍 Dai Thanh Commune, Thanh Tri District, Hanoi

Education

Information Technology Engineer

2013 - 2018

Water Resources University

Information Technology major

Skills

Frontend Development:

- In-depth knowledge of the Angular ecosystem: Angular 20+, Signals, NgRx, RxJS
- Experience building SSR/CSR applications, Service Workers, SSE, and real-time features
- TypeScript, JavaScript (ES6+), HTML5, CSS3
- Experience with ReactJS, Next.js, and Vue.js

Objective

Software Engineer with over 6 years of experience, including 3 years in a Leader/Team Lead role. Specializes in Angular, Node.js/NestJS, and has experience managing teams, providing technical support, and coordinating product development across multiple departments.

Work Experience

Team Lead

2023 - Present

VCcorp Joint Stock Company

- Lead a team of 6+ members using the Agile/Scrum model, participating in requirements analysis, task allocation, code review, and ensuring project delivery timelines.
- Collaborate with BA, QA, DevOps, and related teams during product development, release, and technical issue resolution.
- Develop, maintain, and migrate web systems across multiple stacks such as Angular, ReactJS, Node.js/NestJS, PHP/Laravel, and Codelgniter.
- Build and optimize Dockerfiles and multi-stage builds for projects to reduce image size and increase deployment speed.
- Collaborate with DevOps to implement CI/CD, release, and operate systems using Jenkins, Rancher, Grafana, and Vault.
- Build a Kong API Gateway management system to support service administration, routing, upstreams, plugins, consumers, RBAC, and system monitoring for DevOps.
- Build the core frontend with Angular (SSR/CSR, state management, authentication flow, i18n, PWA, realtime, spam protection, modules architecture).
- Build the core backend with NestJS including RESTful API, JWT/HttpOnly Cookie, RBAC, Redis Pub/Sub, queue, cron jobs, notifications, swagger, and RSA API Encryption.

Developer

2020 - 2023

VCcorp Joint Stock Company

- Participated in the development of numerous large-scale internal systems and platforms in the fields of advertising, CDP, analytics, notification, booking ads and real-time systems.
- Specialized in frontend development with Angular, TypeScript, and RxJS; coordinated backend development through RESTful APIs and microservices architecture.
- Built administration dashboards, reporting systems, and data visualization for businesses.

Notable projects: Kafka as a Service, CDP Platform, Analytics & Inventory Trading, Brand Safety, Notification Platform, ADX.

- lazy loading, code splitting, caching, rendering optimization

- UI Frameworks: Angular Material, Bootstrap, TailwindCSS

- Build Tools: Webpack, Vite, Esbuild

Backend Development:

- Core: NodeJS, NestJS, ExpressJS, PHP, RESTful API, Microservices

- Authentication & Authorization: JWT, OAuth2, Passport, RBAC.

- API Documentation: Swagger.

- Queue & Background Jobs: BullMQ, Redis Worker.

- Realtime Communication: Socket.IO, SSE

- Scheduling & Cron Jobs

- MySQL, Redis, Stored Procedure

- Kong API Gateway

- PHP, Laravel, CodeIgniter

DevOps & Infrastructure:

- Docker, Docker Compose

- K8s, Rancher, Jenkins, CICD, Grafana

- Nginx, Supervisor

- Linux Server, Git, GitLab, GitHub

Security:

- JWT, OAuth2, RBAC, HttpOnly Cookie

- API Security, Access Control

- XSS/CSRF Prevention, CORS, Rate Limiting

- RSA Encryption, Google reCAPTCHA, Cloudflare Turnstile

Interests

- Learning new technologies, technical blogging, problem solving.

Titles and Awards

2025 Employee of the Year 2025 (Role: Internal Tools Team Leader - Adtech)

2023 Employee of the Year 2023 (Role: Developer)

2021 Employee of the Year 2021 (Role: Developer)

Certificate

2023 Scrum Essence 2.0 (Agile) Certification

Projects

Team Lead

1/2026 - 4/2026

Core Angular NestJS 2026 Platform

Role: Team Leader

- Built an Angular 20 + NestJS 11 platform to serve as the base for many internal projects such as Awards Manage, SSP Manage, KOC Platform, and migration of some legacy management systems from PHP to the new architecture. The platform focuses on standardizing architecture, security, performance, developer experience, and reusability across teams/products.

Highlights:

- Design core architecture using Angular 20, NestJS 11, TypeORM, MySQL, Redis, BullMQ, Socket.IO/SSE, and Docker.
- Build a backend foundation including modular architecture, repository pattern, migration/seed, global validation, exception filtering, encrypted response interceptor, audit logging, and custom logger.
- Standardize the frontend application shell with standalone configuration, lazy loading, custom preloading strategy, NgRx store/effects, app initializer, i18n, PWA, Firebase messaging, and reusable UI components.
- Design a security framework including JWT, refresh tokens, HttpOnly Cookie, Google OAuth, RBAC, route-level permissions, reCAPTCHA, rate limiting, and RSA request/response encryption.
- Build a dynamic settings engine to store configuration in a database, cache Redis and pub/sub to synchronize settings across multiple instances without restarting the service.
- Build a queue infrastructure with BullMQ/Redis for email, notifications, action logs, clean logs, and Bull Board for monitoring background jobs.
- Standardized the platform admin console: user management, role management, route permissions, action logs, settings, and dashboard.
- Contributed to the migration process of legacy PHP systems to the Angular/NestJS stack, significantly improving latency and resource usage.

- Performance improvements compared to the legacy PHP system: average latency reduced by approximately 75%, P95 reduced by approximately 67%, CPU peak reduced by approximately 83%, and average RAM reduced by approximately 75%.

Technology:

- Angular 20, Angular Material, NgRx, RxJS, PWA, Firebase Messaging, i18n, NestJS 11, TypeORM, MySQL, Redis, BullMQ, Socket.IO, SSE, JWT, HttpOnly Cookie, Google OAuth, reCAPTCHA v3, RSA Encryption, Swagger, Docker.

Team Lead**9/2025 - 12/2025****Kong API Gateway****Role:** Team Leader

- A four-member lead team developed an internal API Gateway management platform for Admicro, serving approximately 12+ product teams and managing over 2,000 services, 800+ upstreams on Kong Gateway. The system standardizes the management of Services, Routes, Upstreams, Consumers, Plugins, Credentials, and access control based on user/group/role, reducing manual operations directly on the Kong Admin API.

Highlights:

- Designing architecture for the API Gateway Management Platform using Angular, NestJS, MySQL, Redis, BullMQ, and Kong Admin API.
- Leading a 4-member team: requirements analysis, task allocation, code review, technical solution development, and release quality control.
- Building a backend layer between internal users and Kong, handling validation, ownership, permissions, audit logs, and data synchronization.
- Designing a multi-layered security mechanism: JWT, internal LDAP/SSO, RBAC, route-level permissions, API throttling, and request/response encryption using RSA.
- Developing an API Gateway operational dashboard with resource statistics, service status, plugin distribution, activity history, and real-time notifications.
- Building a background worker using BullMQ/Redis for action logging, notifications, clean logs, data synchronization, and data migration from the legacy system db Kong.
- Developing an enterprise-oriented Angular admin console: lazy routes, route guards, permission directives, NgRx store, encrypted HTTP interceptor, and reusable components.

Technology:

- Angular 20, Angular Material, NgRx, RxJS, NestJS 11, Sequelize, MySQL, Redis, BullMQ, Socket.IO/SSE, JWT, LDAP, RSA Encryption, Kong Admin API, Docker.